Mac FORMAT ISSUE 214 November 2009

Why you need Snow Leopard > New iPod nano 16GB reviewed > Group Test: four disk utility apps tested > Share songs in iTunes 9 Printed in the UK

Mac FORMAT

All your Apple needs

>Mac >iPod >iPhone
>Issue 214 November 2009

All the new iPods p118

NEW NANO: THE VERDICT

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Share songs in iTunes 9

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- > Wacom Bamboo Fun
- > Parallels Desktop Switch to Mac edition

AND MUCH MORE!

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The ultimate user guide

- ✓ Install with ease
- ✓ Take your first steps
- ✓ Find hidden features

GROUP TEST

Lost files found

Four data rescue apps tested

iPhone tricks

Tether an iPhone to a Mac

REVIEWED

Get shredding!

With Guitar Hero World Tour

DISC INSIDE!

> **KavaServices 3.2.2** Add extra features to OS X

> **QuickApps 1** Launch apps from your Mac's menu bar

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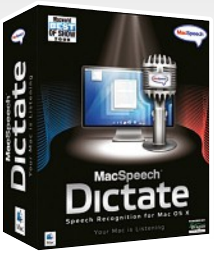

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Subscribe to MacFormat to **save £27** on the newsstand price, and get an Intempo iDS01 Unplugged iPod Speaker Dock worth £44.99! **p24**

The wait is over and OS X 10.6 Snow Leopard, the latest version of the Mac's operating system, is finally here, and it only costs £25! If you've been waiting for a helping hand before installing Snow Leopard then now is the time because we've got a superb installation guide for you, starting on page 26 of this issue. If you're still undecided about whether to install the latest big cat then read our definitive *MacFormat* verdict on page 82 before making up your mind.

Of course, Snow Leopard wasn't the only new release from Apple during the course of this issue. There was also *iTunes 9*, with a great new Home Sharing feature for copying songs between all your Macs at home, and a brand new iPod nano with a video camera and FM radio built-in – see my review on page 90. All in all it's been another bumper month from Apple!

It looks like Apple's iPod line-up is all set for Christmas now, but will there be an addition to the Mac line-up before then? We hope so. Don't forget to check out *MacFormat* next issue to find out what's new. Enjoy this issue and I'll see you again on November 11 for a special issue dedicated to solving the most common Mac problems. See you then!

Graham Barlow, Editor
graham.barlow@futurenet.com
twitter.com/MacFormat

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Discover the great new features **p52**

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Our verdict on the new nano **p90**

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>> MEET THE TEAM / YOUR MACFORMAT EXPERTS!

Christopher Phin
Deputy Editor

"Not only can you stream music from *Spotify* to your iPhone, you can also cache up to 3,333 tracks locally."
Chris discovers the joy of the Spotify app for your iPhone p98

Ian Osborne
Reviews Editor

"Snow Leopard is 64-bit, enabling software to take advantage of as much RAM as you can stuff into your Mac for years to come."
Ian gets his teeth stuck into Snow Leopard p82

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OS X expert

"All the other people in the room had PC laptops and there was not a MagSafe connector to be found."
Chris shares a little tip to stop you running out of MacBook juice p60

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Technical wizard

"Data syncing is one of those concepts that's easy to articulate but staggeringly hard to implement properly."
Luis gets to the bottom of your MobileMe syncing problems p74

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Software guru

"Despite this feature being one of Mac OS X's flashiest, many people never ever use it. Let's change all that."
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Snow Leopard

The ultimate user guide

✓ Install with ease
✓ Take your first steps
✓ Find hidden features

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Apple iPod nano

Our verdict on the new model **p90**

DEVELOPERS UNITE
PROGRAMMERS
BREAK
FREE

"The review process is frustrating at its best and maddening at its worst"

THE APP STORE CONTROVERSY P70

Win!
A MacBook Pro together with a fantastic battery pack!
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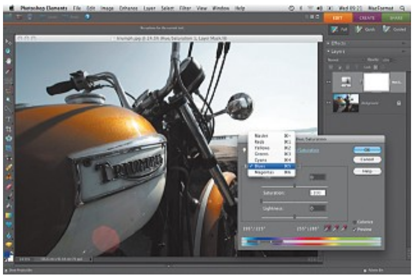

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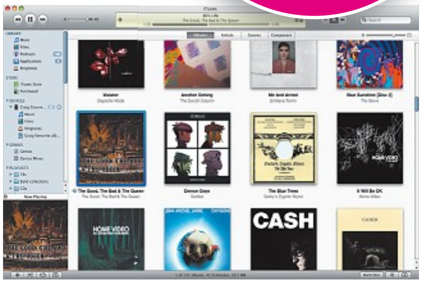

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"It looks great and its sounds are beamed up to 100ft"

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All your Apple needs
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Mini Edition of online desktop

> QuickApps 1

Easily access your software

> KavaServices 3

Turbo charge the services menu

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>> FULL VERSION
KavaServices 3.2.2
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Launch apps in a flash!
Trax OS Mini Edition
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THE 80 BEST iPHONE APPS REVIEWED INSIDE!
Mac presents
The Essential iPhone HANDBOOK
SECOND EDITION: Unmissable advice from the independent iPhone experts

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Apple's latest iPods revealed

For iPod nano review turn to p90

- > iPod nano gets a video camera
- > iPod touch gets faster, cheaper
- > shuffle gains special edition

NEWS IN BRIEF

Apple TV cut

Apple has cut the cost of the 160GB Apple TV and removed the 40GB version from sale. Apple TV is now £219. Analysts expect a web browser in future versions, while the iTunes LP/Extras format has been confirmed to offer content.

iPod
Music
Videos
Photos
Podcasts
Extras
Settings
Shuffle Songs
Now Playing
MENU
9:42 AM
Akon
Beautiful
Freedom
2 of 14
MENU

Apple's latest iPod range hits the streets, with lower prices and new features.

The applause that greeted the public return of Apple CEO Steve Jobs, outshone this year's music product introductions, as you'd expect for a man cheating death a second time.

Jobs introduced new models of iPods nano, touch, classic and shuffle. But, overall, the event failed to meet the hype, with a quickly suppressed comment by Yoko Ono fanning false hopes that The Beatles would come to iTunes, and expectations of cameras across the iPod range being mostly unrealised, except in the iPod nano.

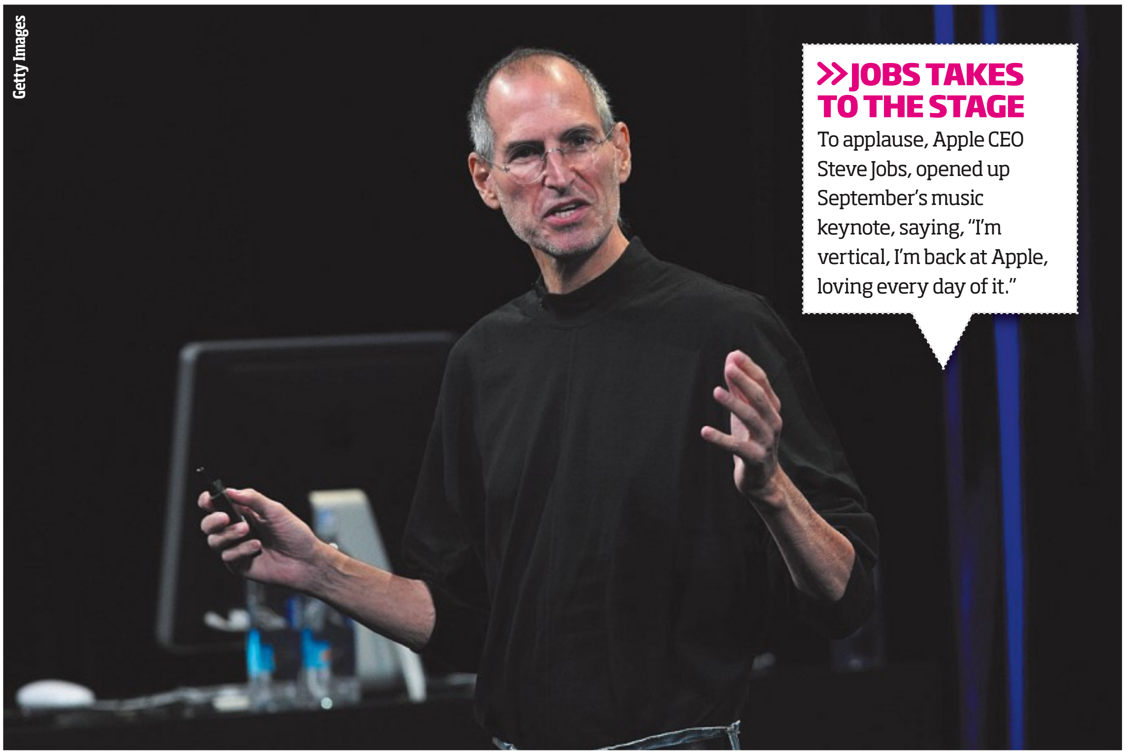
Jobs also revealed that iTunes has become the world's leading music retailer, selling more than 8.5 billion songs to date, with more than 100 million registered-users worldwide. 220 million iPods have sold so far, 30 million iPhones and a staggering 1.8 billion apps have been downloaded from the App Store.

The company introduced a whole selection of products and upgrades during the event. Read on…

iPod nano

Apple's mini media player has gained new features at a compelling price. It now hosts a built-in video camera and an FM radio tuner, which lets you tag radio songs for future purchase through iTunes. The video camera shoots in portrait and landscape, and

APPLE IN PICTURES / Jobs' a good 'un



Getty Images

JOBS TAKES TO THE STAGE

To applause, Apple CEO Steve Jobs, opened up September's music keynote, saying, "I'm vertical, I'm back at Apple, loving every day of it."

videos can be shared through iTunes to YouTube, MobileMe, Facebook and via email. The player's aluminium body hosts a 2.2-inch colour display, and there's a built-in pedometer. It's available in several colours, and costs £115 (8GB) and £135 (16GB).

iPod touch

Price is key in the latest range. They begin at a new price of £149 (8GB). The 32GB model costs £229, while the 64GB will set you back £299. Features remain identical. Apple's marketing chief, Phil Schiller, pitched the device at gamers, saying, "When you think about the companies that came before us… when you played those other systems, they seemed so cool, but now when you look at them, they don't stack up."

APPLE IN NUMBERS

69%

iPod music share in UK music player sales.

iPod shuffle

The world's smallest music player is now available in five colours and supports VoiceOver, meaning you can control the device with your voice, or use the built-in controls located on the headphone cord. The aluminium device is available in several colours and costs £45 (2GB) and £59 (4GB). A £75 4GB special edition in polished stainless steel is also available.

Apple has reached deals with headphone makers Sony, V-MODA, Klipsch and Scosche who will distribute alternative headphones equipped with built-in controls for the device. Belkin, Griffin and Scosche are also offering adaptors so you can use your new shuffle with your favourite headphones from any manufacturer.

iPod classic

Apple's original iPod still remains and is now available with 160GB capacity for £189, in black or silver. It supports Genius playlists, sports a 2.5-inch colour display and is just 10.5mm thick.

iPhone software 3.1

As well as some bug fixes, Genius has been enabled to make App recommendations. Apple now offers iPod touch users the upgrade for £2.99, which should drive more touch owners to upgrade. A recent AdMob survey showed just 1% of touch users use v.3.0 compared to 44% of iPhone users. ●

"The iPhone was the perfect holiday companion"

Christopher Phin recommends the must-have accessory for a week in the South of France. »

Apple talk

Who's saying what?

›Steve Jobs
www.apple.com
"I'm very happy to be here today… I now have the liver of a mid-20s person who died in a crash and was generous enough to donate their organs."
Jobs urges us all to become organ donors

›Steve Jobs
www.apple.com
"I probably need to gain 30 pounds. I feel really good. I'm eating like crazy. A lot of ice cream."
Jobs explains his new diet

›Paul McCartney
www.thebeatles.com
"We're having problems with iTunes - well not iTunes, EMI was the problem - with downloads, which we'd like to do because that's how people get music."
Macca blames EMI for Beatles' iTunes no-show

›Loke Uei
www.microsoft.com
"Apple's changed the way the game is played."
Windows Mobile chief admits Apple's iPhone advantage

›Joe Hewitt
www.facebook.com
"I have one major complaint with the App Store: the review process needs to be eliminated."
Facebook developer urges freedom on Apps approval

Have you heard any great Apple quotes? Email us at macformat@futurenet.com

>> IN THE SPOTLIGHT

iPhone, je t'adore

Christopher Phin

You catch me, dear reader, on the first day back at work after a week's holiday in Provence. And I return with a renewed love of my iPhone; I'm not going to call it 'indispensible' – y'know, I could have gone on holiday without it; millions have – but I am going to call it pretty bloody useful.

All my flight, insurance and car rental details were saved as PDFs though *ReaddleDocs*, so that if there was any problem, I could just look up an emergency number or check a detail.

When we parked our car at the airport, I bookmarked its position using GPS and the *Maps* app so we could find it when we returned.

When we pulled away in our hire car, the *TomTom* app gave us directions to our gîte; Tim's unfazed voice was welcome as he guided us around roundabouts, and seeing just how gut-wrenching the hairpin bends around Bargemon were before we hit them was reassuring.

When we decided on a whim to stay in a hotel in Nice on our last night, we parked the car in the city centre, looked up a few local hotels online, then used the *Maps* app (with the compass of the 3GS) to find our way to them to check them out before retracing our steps back to fetch the car.

> *"All my flight, insurance and car rental details were saved as PDFs though ReaddleDocs, in case of an emergency…"*

When I couldn't be bothered lugging my DSLR around with me, the camera recorded stills and video footage of the places we visited.

When we breakfasted outside, my beloved Logitech Pure-Fi Anywhere came with us to play some music from my *iTunes* library.

And when my rusty French fell apart, I had phrasebooks and dictionaries to hand.

Overall, then – even ignoring the iPhone's ability to keep me connected to email, Twitter and Facebook – the iPhone was the perfect holiday companion, and it meant, very happily for once, that I could leave my MacBook Pro at home all holiday.

So, no agenda, no point to make, no consumer rights campaign. Just a simple 'thank you, Apple' for the iPhone.

MF's resident jobsworth, Chris Phin, now has work email installed on his iPhone. Email him on christopher.phin@futurenet.com.

As the Mac-user base grows, Snow Leopard seems set to become the most popular OS X upgrade yet.

>> OS UPGRADE NEWS

Snow Leopard sales roar ahead

New OS sales put older releases in the shade

The initial sales of Snow Leopard have stormed the charts, driving an upgrade explosion that puts previous OS X releases in the shade, according to the latest data from NPD.

They report the new OS "far exceeded" sales of both Leopard and Tiger in its first two weeks of release.

The affordable £25 price tag has certainly driven the migration forward; another key driver is that a Tiger user can upgrade all the way to Snow Leopard with the installation disk, despite Apple warning that this isn't permitted.

Chief Operating Officer, Tim Cook, confirmed mass adoption of the Intel processor-only OS as an aim during Apple's Q3 financial call, "We've priced it very aggressively so that all of our users can upgrade and we are hoping that they do that," he said.

It certainly worked. NPD says Snow Leopard sales are more than twice those achieved by Leopard in the same period and four times higher than those realised by Tiger. Apple hasn't revealed Snow Leopard sales figures, but it is known that it sold 2 million copies of Leopard on its first weekend of release, suggesting a minimum of 4 million Snow Leopard sales in the first few days of release – and this figure continues to rise.

While sales fell by 25% after the initial rush, they are continuing at a steady pace, following Apple's recent release of Mac OS X 10.6.1, a maintenance upgrade that addressed bugs reported by early adopters. In comparison, sales of the previous two operating system's declined by 60% after the initial rush, according to NPD.

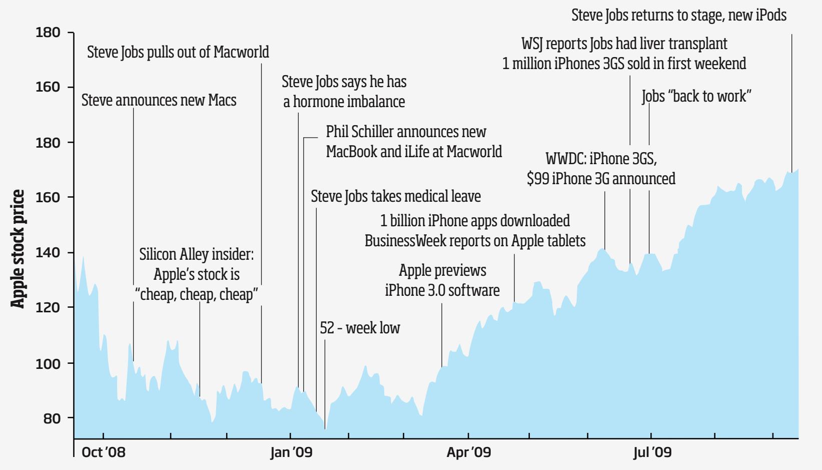
"Even though some considered Snow Leopard to be less feature-focused than the releases of Leopard or Tiger, the ease of upgrading to Snow Leopard and the affordable pricing made it a win-win for Apple computer owners – thus helping to push sales to record numbers" Stephen Baker, Vice President of Industry Analysis at NPD, told Loop Insight. ●

>> APPLE IN NUMBERS

£60 million

The amount of money taken at Apple's Regent Street store.

APPLE IN NUMBERS / Apple stays healthy



APPLE'S MASSIVE RUN: KEY EVENTS

The Business Insider (**www.businessinsider.com**) put together this chart, which correlates key Apple events with its stock price across the last year. As you can see, the company's momentum continued in Steve Jobs' absence.

DIGITAL MUSIC

iTunes 9 new features explained

iTunes tutorial turn to p50

Better sharing and reinventing the album

The latest version of *iTunes* offers a cleaner interface and a range of new features, led by **iTunes LP**, **Genius** mixes and – at last – **Home Sharing**, a simple way to transfer content between up to five home computers.

Home Sharing may be the feature that users find most useful, but it's with **iTunes LP** on which the music industry has its hopes pinned. Album sales continue to decline, even while individual track sales climb. Some argue that the right to "cherry-pick" tracks should be removed from online services, while wiser heads observe any sales beat no sales in a file-sharing age.

iTunes LP attempts to boost album sales by making albums more attractive. In a digital sense, it tries to emulate the engagement created by physical releases, including the music, art, lyrics, liner notes, photos and videos.

The launch of the new format is aimed at the richer, older music fan, offering selections from artists including Bob Dylan, Grateful Dead and Muse.

APPLE IN NUMBERS

20 million

Unit sales of iPod touch so far.

Also new, **iTunes Extras** offers a similar experience for films, with the main attraction sitting alongside features, such as interviews, documentaries and more.

Genius Mix builds playlists of tracks that work together, generating up to 12 mixes of songs from your collection.

There is also improved syncing so you can organise your apps in *iTunes* to appear on your iPhone with the same layout.●

HOT OR NOT?

The latest word from the Apple rumour mill

HOT: Apple plans an 'iTablet'

When will it arrive and how many will there be? Rumours say one tablet will run OS X, and the other, iPhone software. Analysts expect a February launch.

HOT: Apple TV upgrade looms

Reports claim the new Apple TV will offer better integration with iTunes U and a full webkit-based browser to support **iTunes LP** and content found online.

NOT: iTunes takes on Spotify

Rumour say Apple may introduce a streaming music service, we don't expect it immediately – letting others in will stave off accusations of monopolistic practices.

NOT: Camera for iPod touch

Everybody seemed positive that Apple's new iPod touch would have a camera, but instead it only got a faster processor and a memory hike to 64GB.

BBC/Wall To Wall

Apple on TV

The Mac is ready for its close-up

Many thanks must go to eagle-eyed reader, Ashley Perkinton, who let us know he'd spotted a Mac in hit BBC drama series, *New Tricks*. Which just goes to prove how easy it is to use an Apple…

If you've spotted a Mac on television, then email macformat@futurenet.com and tell us all about it!

>> ACROSS THE POND

Ruling the market

Susie Ochs

After the thrill of seeing Steve Jobs back onstage, Apple's "It's Only Rock and Roll, But We Like It" press event fizzled into ho-hum. Refreshed iPods and *iTunes 9* just weren't earth-shattering announcements. Arguably the most interesting thing was a glimpse into how Apple positions and markets its industry-dominating iPod line.

Phil Schiller said that 50% of iPod buyers are new to the iPod. This means the other half already owned one at some point. Sure, some repeat customers are replacing lost, stolen, or broken iPods, but I bet a chunk are picking up a second device. So adding features to the nano makes it attractive to new and repeat buyers.

So, why no camera on the iPod touch? Steve Jobs told the *New York Times* that Apple's goal for the touch was not to add features, but rather to get its price down. And that jibes with Phil Schiller's graph showing how sales of the iPod mini doubled when its price dropped from $249 to $199. Apple expects the $199 8GB iPod touch to sell big, and the company is pushing it as a gaming device too, with high-octane, PSP- and DS-quality games from Electronic Arts, Ubisoft, Tapulous, and Gameloft demoed at the event.

> *"As iPod touch owners collect apps, they're more likely to consider an iPhone when stepping up to a smartphone"*

In other words, Apple wants to lower the barrier of entry to the App Store. As iPod touch owners start collecting apps, they're more likely to consider an iPhone when stepping up to a smartphone. Some might start to covet all the camera-required apps in the App Store (especially once augmented-reality apps, which overlay info on a real-time image of the environment, gain in popularity) and upgrade to an iPhone then.

Of course, iFixit tore apart the new iPod touch and found a space where the rumoured camera might go. Does that mean Steve Jobs is a liar, or what I just said is bull? Not at all – Apple is just following its own plan, balancing features and price points with an eye on potential sales.

Or they're just saving the camera-equipped touch for next year.

Susie Ochs, top tech writer, extraordinary thrill seeker and hardcore burrito enthusiast is also the Senior Editor of *Mac|Life*.

>> BOARD NEWS

Apple legal gets a brand-new chief

Welcoming in Apple's latest legal talent

Apple has recently hired Intel's top legal talent, Bruce Sewell. The lawyer replaces the company's General Counsel and Senior Vice President, Legal and Government Affairs, Daniel Cooperman, who retired from the post at the end of September.

"We are thrilled to have Bruce join our executive team, and wish Dan a very happy retirement," said Steve Jobs, Apple's CEO. "With Bruce's extensive experience in litigation, securities and intellectual property, we expect this to be a seamless transition."

Sewell's no stranger to Apple. Prior to joining Intel he was a partner at litigation firm, Brown and Bain, where he was involved in the landmark fight between Apple and Microsoft over the copyright of the Macintosh Graphical User Interface.

Sewell has been profiled in *Fortune Magazine* and gained recognition in 2006 for being one of the 100 Most Influential Lawyers by *California Lawyer* magazine and the *Daily Journal*.

What is interesting to reflect, as Apple attracts attention from US regulators over claims of anti-competitive deals with Google and fresh reports suggesting possible insider training, is Sewell's extensive experience in antitrust compliance, licensing and intellectual property. These are all areas that he handled when he was at Intel. In 2001, Sewell was promoted to Vice President and Deputy General Counsel, managing Intel's litigation portfolio, and handled corporate transactions including aquisitions. He gained a BSc from Lancaster University in 1979. ●

>> APPLE IN NUMBERS

54 billion

Number of songs analysed by the Genius feature so far.

Stockwatch

A look at the world of Apple business with Clem Chambers

One year on, the financial world has reached a point approximate to where it went off the cliff and crashed.

And while the real economy is still up the creek, Apple stores are full with consumers.

In the last year there've been vast amounts of money pumped into the world economy. This money will flood consumers next year and is bound to be good for Apple. If Apple can fill its stores in a retail depression, it'll be standing room only in a boom.

And its stock price is nearly back at an all-time high. It is the seventh most valuable company in the S&P 500 and, hence, in America. In terms of company valuation as a ratio to gross sales, Apple is sixth in the top 100 of corporate giants. The company continues to shine in the mind of investors when compared to businesses with three or four times the brute scale and that is how the market works.

The market is a consumer too and it loves cool stuff.

Clem Chambers is CEO of ADVFN, Europe's leading stocks and shares website.

>> iPHONE NEWS

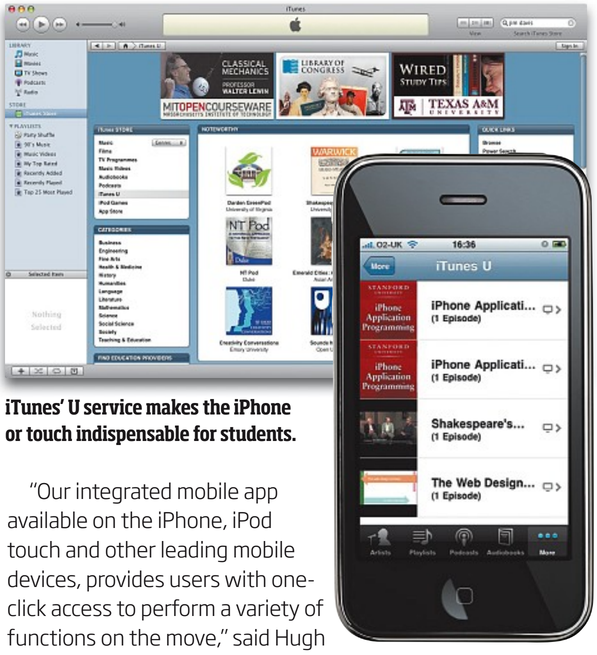
iPhone a hit at UK universities

Apple embraces the student market

Apple's taking an ever-larger slice of the education market, with its iTunes U service offering free educational content. UK universities are turning to the iPhone and iPod touch to keep students informed.

A new mobile application, *CampusM*, which enables students to receive university information direct to their iPhone, will launch in several universities this year, led by the University of Sheffield. The application offers students access to information about forthcoming events, campus maps using GPS to search for buildings by name or address, or their own up-to-date timetables. There's even a friend finder to help them meet up with other students at the university.

Developed by oMbiel, the application also offers students access to their library records as well as essential contact details for university staff and students. It is being made available for free download from the university intranet. While it supports iPhone and iPod touch on launch, support for other smartphones will be made available by the end of the year.



iTunes' U service makes the iPhone or touch indispensable for students.

"Our integrated mobile app available on the iPhone, iPod touch and other leading mobile devices, provides users with one-click access to perform a variety of functions on the move," said Hugh Griffiths, CEO of oMbiel.

Similar systems are emerging across the US universities. Universities in San Diego, Texas are already experimenting with iPhone-based information systems, with Duke University exploring curriculum-based mobile solutions. ●

>> APPLE EVENTS / What's going on?

11 NOVEMBER

STORAGE EXPO, London
14-15 October
The place to go if you want to keep informed on the latest developments in data storage and content management.

TOTAL PRINT! EXPO, London
20-22 October
This international exhibition is solely dedicated to professionals in the print and reprographic industries.

TOTAL CONTROL
October 20, London; October 28, Norwich
Extensis seminars explain typography and digital asset management solutions.

VISION
November 7
Join in with the British Journal of Photography's annual one-day event for photographers at Islington's Business Design Centre.

MACFORMAT Issue 215
11 November
Watch out for the next issue of the UK's most popular Mac magazine, the latest products and info for the Apple way.

CES, Las Vegas
7-10 January 2010
The CES Apple section expands from 4,000 to 25,000 square feet next year. Is Apple exhibiting here next year?

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We're now on Twitter! Follow our tweets at twitter.com/MacFormat.

Facebook
Visit our Facebook group. Just do a search for "MacFormat" to find us.

Win! More power for your MacBook…

PRIZE WORTH £1200!

A HyperMac battery pack and a 13-inch MacBook Pro must be won!

There's nothing worse than running out of battery power at an inopportune moment. You could be halfway through an important report, about to finish digitising a video ready for your presentation or about to beat the end-of-level baddie in your new Mac game, when your battery dies, and your screen goes blank. Frustration!

If this happens to you on a regular basis, check out Sanho Corporation's HyperMac. It's an external battery pack for all Apple laptops, and is available in four capacities, ranging from 60Wh to 222Wh. For comparison, the MacBook Air's internal battery is 37Wh. The device comes with MagSafe cables for connecting to a MacBook, MacBook Pro or MacBook Air, and offers a USB port. It charges your internal battery, as well as powering your notebook for up to 32 hours (six times longer than your Mac's battery). It will also charge up to 1,000 times before wearing out.

Sanho Corporation has kindly given us a HyperMac 222Wh External Battery and a 13-inch MacBook Pro to give away.

The question

To stand a chance of winning this stunning prize, just answer this simple question:

For how long can the HyperMac 222Wh battery pack power your MacBook?

A) Up to eight hours
B) Up to 16 hours
C) Up to 32 hours

» HOW TO ENTER

- To enter, text POWER, followed by a space then your answer (A, B or C), space, then your name and address to 87474; or enter via our website at **www.macformat.co.uk** and click on the **Competition** link.
- By sending your entry, you agree to these competition rules and you confirm you are happy to receive details of future offers and promotions from Future Publishing Limited and carefully selected third parties.
- If you do not want to receive information relating to future offers and promotions, please include the words NO INFO at the end of your text message.
- Texts will be charged at £1 plus your standard network tariff rate.
- Competition closes on 10 November 2009.

[some things are worth reading]

PRESS RELEASE

Computer Warehouse on the move

After nearly 15 years Computer warehouse are pleased to announce that the CW group is on the move to a brand new location

2 Premier Park
Premier Park Road
London
NW10 7NZ

Computer Warehouse and its professional Divisions CWPro (Professional Audio and Video) and TSC (machinery for musicians) will all be housed at a 15,000 sq ft purpose built studio and demonstration facility in Park Royal, West London.

The home of Cream recording studios the new building is twice the size of our current location and has no less than 7 studios and a live room all designed by professional studio designers Recording Architecture at great expense. We will be renting out these facilities to audio and video clients under the brand Cream Recording studios and the White Rooms. The seven studios are designed for programming, preproduction and post production, each with an overdub booth. The studios are available on various rental periods and provided 'wet' or 'dry' hire with or without our in-house audio technicians.

The move is directly designed to service CWPro's expanding client base in the pro audio and video market. Already certified as Apple solution experts CWPro and TSC have recently been appointed authorised Yamaha and Roland dealers. We will have the perfect environment to demonstrate these new products to their fullest and provide the extra space we need to host our popular professional application training 'deep dive seminars'.

Chairman and CEO Jonathan Cole explains, "The Company has changed significantly over the last year and this move compliments everything we are doing with the direction of the Company, of course many of our higher profile clients in the music industry will also benefit from the new facilities".

For our retail customers we have a real treat, we are building a real Computer Warehouse - an extended showroom facility within the new warehouse.

Over the next few weeks we will be hosting a series of events to show off the new facility and details of these will be posted on the our website

For more information, please call 020 8400 1234 or view images online at: www.computerwarehouse.co.uk/moving

This is... computer warehouse
www.computerwarehouse.co.uk

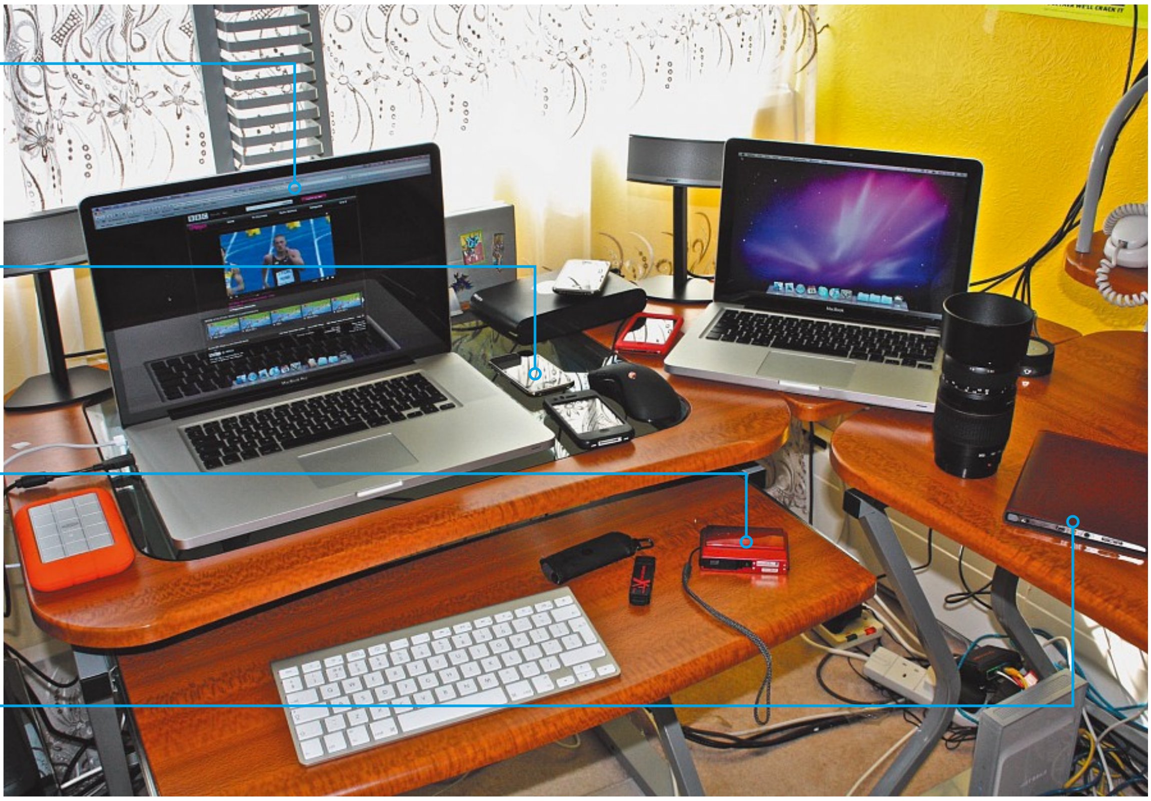
CW [Pro]
www.cwpro.co.uk

TSC
MACHINERY FOR MUSICIANS
www.gotsc.com

Me&MyMac

MacFormat readers share their beloved Mac setups

>> CONTACT US
Want to share your Mac setup with us? Send a photo of your kit to **christopher.phin@futurenet.com**

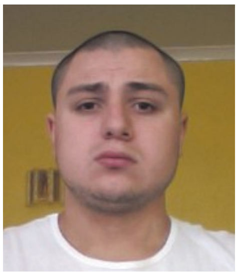


Apple MacBook Pro 17-inch 3.2GHz
Max quite rightly loves the 17-inch MacBook Pro's generous, rich display.

iPhones/iPod touch
There are no fewer than three iPhones here, plus one iPod touch. Max is developing apps for them.

Olympus μ1040
The picture was taken with a Canon EOS 500D, but like many SLR-toting folks, Max has a compact camera too.

Sony Reader PRS-505
We're big fans of the E Ink system at the heart of the Sony Reader.



>> PROFILE
Name: Max Mazurenko
Occupation: Student
Been using a Mac for: 8 years
Favourite hardware: iPhone 3GS 16GB
Favourite software: Photoshop CS4 Extended

Have you seen Microsoft's Laptop Hunters ads, in which, it would appear, shoppers looking for a new machine choose criteria specifically designed to exclude Apple laptops? Well, the story of how Max came to buy his first Mac reads like the opposite: "I was looking for a new laptop, so drove to PC World to see what laptops from top brands they had," he says. "A Dell XPS had my eye for a while but I decided to wait. But when, later that day, I went into town with my girlfriend, we passed an Apple store, and she forced me to go in and have a look. I was totally amazed by the quality of the build and then by the productivity of the operating system, so I walked out with my first MacBook.

"Truthfully, I think Windows is a reasonable operating systems for the mass market, but it has no stability and high performance compared to OS X; you feel like Windows isn't finished."

> *"He loves that the Mac just does what you ask of it, and doesn't seem to have a mind of its own…"*

So what does Max, a student at the University of Sussex, use his Macs for? "Mostly I use it for graphic design and website development. For the past year or so I've begun to develop for the iPhone, and I love it. It's so simple and easy to use that I spend days developing games. I also spend a lot of time in *Final Cut*, and haven't found any better application for video editing." He loves that the Mac just does what you ask of it, and doesn't seem to have a mind of its own.

He's also a big fan of the iPhone. He rightly points out: "No other phone allows you to be connected to the world like the iPhone does." But he saves his most effusive praise for the 17-inch MacBook Pro, saying "the incredible battery plus the stunning display has won my heart over."

And while we don't condone or recommend the following method for avoiding speeding tickets, it's amazing what a Mac can do! "I was driving in California and got stopped for speeding," Max says. "When the officer came over he asked to see my licence and registration. I had my licence on me, but the registration was emailed to me from the rent company. So, I got out my Mac, connected it through Verizon, and showed him my registration document; I think he was so impressed that he just forgot to give me the ticket!" ●

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by FileMaker
Bento 3
Organize contacts, track projects, plan events and more!
Auto Show
Eric

Meet Bento 3 for Mac, the breakthrough new version of the wildly popular personal database from FileMaker that's as easy to use as your Mac.

October
NAOMI
FRANCIS
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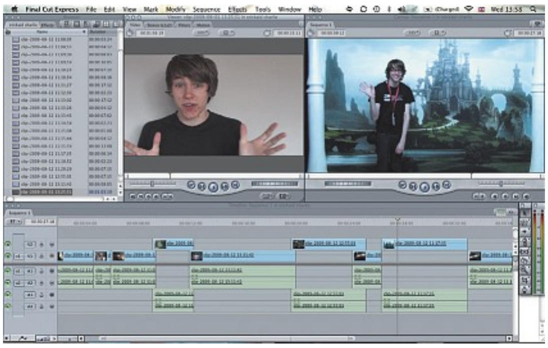

CHARLIEISSOCOOLLIKE!!!
VIDEOS
TWITTER
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Above: Charlie's a switcher: "I used a slow Toshiba laptop; friends told me how great the Mac was. I tried one and was blown away." **Right:** Charlie says you don't need expensive kit; He started out with iMovie and his laptop's iSight.

I use my Mac for video blogging

Craig Grannell asks Charlie McDonnell what it takes to 'vlog' with a Mac

>>PROFILE

Name: Charlie McDonnell
Location: Bath, UK
Occupation: Self-employed video blogger
System: 13-inch MacBook
Web:
http://youtube.com/charlie
http://twitter.com/coollike

MacFormat: What do you use Macs for?
Charlie McDonnell: Editing my vlogs – video blogs – which mainly consists of simple jump-cuts and titles, but I sometimes venture into split-screen and animation. I use *Final Cut Express* to edit. It's less limiting than *iMovie* but cheaper than *Final Cut Studio*, and so I can make my videos look professional without shelling out too much on software. I film everything on my Sony HDR-SR10 camera.

MF: Why did you start vlogging?
CM: I was bored and wanted to procrastinate to avoid exam revision! What I now enjoy about online video is how quickly you can create something and show it to the world. It sometimes takes just a few hours to turn an idea into an online video that you're getting feedback on.

MF: What tips do you have for anyone who'd like to vlog?
CM: When starting out, don't feel the need to buy high-end equipment. Even a MacBook has all you need to make high-quality video. Content-wise, be honest and real – people appreciate that. And if you make videos that reflect you rather than just trying to get the most hits, you'll have more fun.

As for getting 'out there', make video responses to people you like to watch, share your videos with people at the same level as you, be social and get involved with the YouTube community. You'll end up getting more views and you'll make some great friends along the way.

MF: What's your favourite vlog?
CM: It's hard to pick one. A favourite is Wine Gum Experiment, where I count the different flavours and make a graph of my results with wine gums– and then eat them all. I also like The Purple Man, where I paint my entire body purple, and Why Women Scare Me, where I share my theory that women can read minds.

MF: What are you working on?
CM: More videos! There's a follow-up to The Purple Man, which recently reached a million views, and so I wanted to do something to celebrate. There are also non-vlogging projects, involving me talking to people across the globe, collaborating, designing and creating – all from my Mac... and my iPhone if I can't be bothered taking my Mac out of my bag! ●

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Gadgets

The hottest kit, coming soon.
Here's what Apple is up against

Panasonic TH-85PF12U 85-inch Plasma Display

£30,000 + VAT **http://panasonic.net**

What is it? A large expensive goggle box. It boasts a screen the same size as four 42-inch panels, NeoPDP technology for twice the brightness efficiency of previous models, reduced power consumption, high definition at 1920_1,080 pixels and a contrast ratio of 40,000:1. Yet it's still under 10cm thick.

When's it due? November 2009.

Digital Opera S5 iPod Compatible Wireless Earbuds

£85 **www.wirefreehifi.com**

What is it? Free yourself from your earbud cables. Just fit the S5's transmitter into your iPod or iPhone's dock connector, and your sounds are wirelessly beamed to your earbuds. It's got a transmission range of 32 feet, and uses 2.4GHz WiFi. You can even share your music with up to four other users.

When's it due? Out now.

Why are we excited? It's great that five people with S5s can listen to the same music.

OPERA S5
OPERA S5T

Novothink Solar Surge

About £45 **www.novothink.com**

What is it? According to Novothink, this is 'the first Apple-licensed solar charger case for iPod touch and iPhone'. It has a USB connector, so you can charge it via your Mac and exchange data.

When's it due? Should be out now.

Why are we excited? We're just interested to see whether it's genuinely functional or an amusing novelty.

Revo IKON

£280 www.revo.co.uk

What is it? According to Revo, it's 'the world's first colour touchscreen, multi-format digital radio'. Tune in to DAB, DAB+, FM with RDS or internet radio, or stream music from your Mac. The IKON's colour screen displays station logos, station descriptions, track and artist information, news headlines and more, and Revo have also chucked in an iPod dock for good measure.

When's it due? Should be out by the time you read this.

Why are we excited? When it comes to digital radio and streaming broadcasts, Revo is king. We're really looking forward to reviewing this one in a later issue.

Etre Touchy

£15 www.etretouchy.com

What is it? What do you do when your phone rings and you're out in the cold? Remove a glove and risk freezing your fingers, or keep it on and miss the call? With these Etre Touchy gloves, you can leave your thumbs and forefingers free to easily operate your iPod or iPhone.

When's it due? This winter.

Why are we excited? A new range has been released this year, made from lamb's wool instead of acrylic, available in a range of styles and sizes.

Parrot Zikmu Wireless Stereo Speakers

£1,090 www.parrot.com

What is it? A very stylish set of speakers. As well as connecting them to your stereo system with an RCA cable, you can transmit your sounds wirelessly via a WiFi device, Bluetooth them from your Mac or play them directly from your iPod or iPhone using the built-in dock connector.

When's it due? They're out now.

Why are we excited? They look good, are versatile and just ooze style.

Feedback

>> CONTACT US
Whatever your Mac-related cares, concerns or calamities are, let us know about them by contacting us on the following email address: **macformat@futurenet.com**

Let us know what you think about your Mac, MacFormat and everything Apple

Lulu publishing problems

Thanks for the interesting article on 'How to publish your book online' (issue 212, page 58). I followed your advice and got there in the end, but not without problems. It's worth knowing that, even though you said "You can also design the layout yourself in programs such as Apple's *Pages* and upload the entire document as a PDF file," that doesn't happen. I guess you haven't tried it. As I had the text of a book in *Pages*, I exported it as a PDF file and then tried uploading it. Lulu took one look, recognised that it came from *Pages* and told me they couldn't accept it. In the end I had to export it as an RTF file, but that messed up some of my formatting. Lulu isn't as straightforward as it seems.
Duncan Tuck

Strangely, Lulu doesn't accept PDF documents created in Pages.

MacFormat replies: You're right – our tutorial writer didn't check it using a PDF created specifically in *Pages*. He should have, but to be fair, it's a very strange objection on the part of LuLu here, since it clearly states on its web page that PDFs are an acceptable file format. However, his knuckles have been duly rapped! We've done a bit of digging and come up with a solution for you that means you don't have to export your document as an RTF file and lose your formatting.

First of all, create your PDF from *Pages* as normal. Then, open it in *Preview* (in the Applications folder) then select File > Print and choose the PDF drop-down menu in the Print dialog box. Choose Save as PDF-X then save the new copy of the PDF to your desktop (or wherever you like on your hard disk). LuLu will now accept this version of the PDF. Alternatively, you can perform the same print-to-PDF workaround from within *Pages*.

>> STAR LETTER / All at sea

Attached is the first meeting of a new-and-upcoming Mac User Group. The first, I believe, to be… at sea! This picture was taken last voyage as we cruised out of Bordeaux towards Vigo in Spain.

I am the cruise director on the luxury cruise ship 'Azamara Journey' and since so many of the crew use Macs (and I noticed so many guests too) I formed a group of us like-minded souls. I have even managed to convert three of the crew from lame PCs to shiny new MacBooks.

I'm the one with the black MacBook and last month's *MacFormat*, and to my left in the blue jacket is my DJ, Filipe, who exclusively uses Macs for his DJ-ing onboard. I live in Newcastle upon Tyne but we don't yet have a Mac User Group in town, so maybe on my next vacation?
Tony Markey

Cruising in luxury – it's always sunny blue skies in the south of France, as this seafaring Mac User Group can testify.

MacFormat replies: Well, there's a novel idea, Tony. If any of our readers are looking for their local Mac User Group (like-minded Mac users who help each other out with Mac advice and enjoy social events) then go to page 110.

STAR LETTER

Email all your letters to us at **macformat@futurenet.com** If yours gets picked as the *MacFormat* Star Letter, you'll be sent a fantastic EyeTV Hybrid. It comes with analogue and digital tuners, so you can use it to get TV on your Mac wherever you are!

New site feedback

First thing's first: the site at www.macformat.co.uk is fabulous, especially the possibility for subscribers to download previous magazine material in PDF format – it's really helpful.

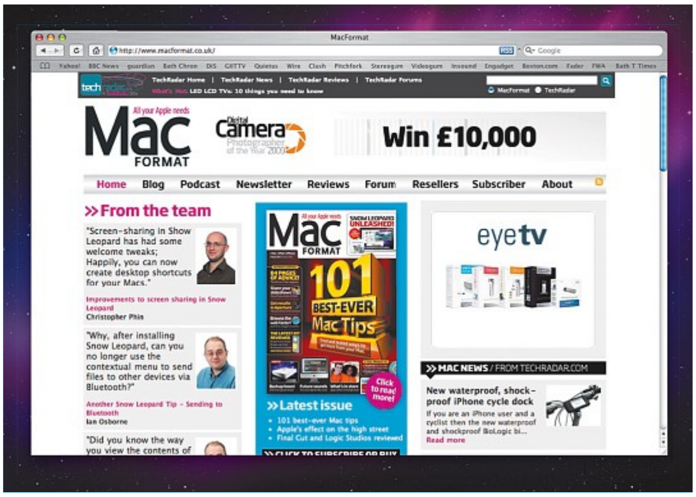
During a number of years being a *MacFormat* subscriber, I've found that each issue contains several articles of lasting value (well, at least until the next big cat is published by Apple every year or so).

In my home study, I've now freed two metres of shelf space by throwing away all the old magazines (with a faint feeling of anxiety, I must confess). However, I know from now on that all those precious *iLife* and OS X tutorials will reside safely on my iMac hard disk, faithfully backed up by *Time Machine*.

This was a very good idea – way to go! It's another reason to stay an annual subscriber. I've also enjoyed the podcasts.

Jukka Laaksonen

MacFormat replies: Thanks for the kind words, Jukka, and another opportunity to remind *MacFormat* subscribers that you have access to a regularly updated archive of back issue PDFs of *MacFormat* stretching back to issue 200.



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>> From the team

"Screen-sharing in Show Leopard has had some welcome tweaks; Happily, you can now create desktop shortcuts for your Macs."

Improvements to screen sharing in Snow Leopard

Christopher Phin

"Why, after installing Snow Leopard, can you no longer use the contextual menu to send files to other devices via Bluetooth?"

Another Snow Leopard Tip – Sending to Bluetooth

Ian Osborne

"Did you know the way you view the contents of

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>> MAC NEWS / FROM TECHRADAR.COM

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The redesigned MacFormat website features PDF back issues for subscribers.

Movie magic only on a Mac

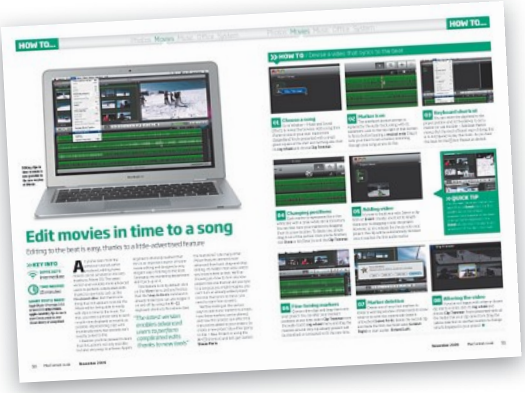
Just under a year ago, I moved from a PC to a nice new Mac. In this small space of time the Mac has let me be a lot more creative than the PC ever did. When I got my Mac, one of my favourite apps was *iMovie* – it let me do things Windows just couldn't do. Okay, Windows does have *Movie Maker*, but it's very difficult to make anything even half decent.

***iMovie*, on the other hand, really did help me create some fantastic videos, but at the same time it's so easy to use. After some time using *iMovie*, I decided I really liked creating videos and shelled out for *Final Cut Express*. This has got to be one of my greatest purchases! At the same time as being a professional program, it was also extremely easy to use and helped me create some stunning videos, and at the same time has got me into a new hobby of video producing.**

People go on about the "Apple tax" but now I'm glad I paid that little bit extra for a Mac, since it has let me follow a dream and do what I've always wanted.

Dan Haycocks

MacFormat replies: *iMovie* is a great program, Dan. It's worth remembering that the whole *iLife* suite comes bundled for free with every new Mac. True, Macs tend to be more expensive, but there's really nothing that compares to them on the PC side of things.



HOW TO...

Edit movies in time to a song

Editing to the beat is easy, thanks to a little-advertised feature

Looking for tips on using iMovie? Turn to page 50 for our tutorial.

Let it snow, let it snow

I have just upgraded my iMac and MacBook Air to Snow Leopard, primarily because of the integration with *Exchange*. The high expectation quickly turned to frustration and then disappointment as, far from snowing, it rained.

***Exchange* integration simply didn't work. Neither did *Parallels 3.0*, nor my DSS dictation software. A call to Apple hinted that *Exchange* integration would only work with *Server 2007* and that it wasn't backwards compatible.**

A follow-up discussion with Apple in Sheffield confirmed the situation and that I would have to continue with *Remote Desktop Connection*, but "Call Customer Services and see what they can do" was the suggestion that I received.

***Parallels 4.0* was duly bought; it's good and a big improvement, but it took me outside my budget; DSS was eventually fixed and *Exchange* integration doesn't work. I called Apple, explained the problem and told them I would have been better**

»

Twitter @#! talk

From the Twittersphere

We asked:
Now you've installed Snow Leopard, do you think it was worth it?

pharcyder
"Right now, no, and we won't see much difference until developers use the new APIs. Only then do I expect to reap the benefits."

minibtweet
"Yes, I use Exposè more productively + PDF/Preview, extra tools, very useful little changes mean a lot to me esp when mags help us ;)"

youngdad33
"Defo, best £25 I spent on a computer, and best priced OS (NOT a service pack!). Beat that Microsoft!"

RoryMitchell
"Hell yeah, I think it was worth it, I like how it gave me an extra 6GB on my hard drive."

@Danielpholt
"Just installed it 2 minutes ago, and i love being able to browse my mbp via the stacks. So much easier now."

@chrisrooke
"Yes, Snow Leopard is blisteringly fast on my 2.2GHz white MacBook. Love the new Exposé, and it managed to fixed my screen's faded-ness!"

@qtfan
"Oh yes! The OS is more zippy. Besides, I've gained 8 gigs!"

You can find out what we're up to each month by following Twitter.com/MacFormat

WINDOWS TO MAC / The one that roars

I've been looking for a laptop that I can use on my product design course at university for nearly a year, studying endless amounts of magazines and reviews. On the spur of the moment, I picked up *MacFormat* in a store, since by this time I was almost set on a Mac. I bought it and it has never been put down. I find it a great read, with helpful answers to the questions I had, and I found Ian's reviews in-depth and informative. I also registered to the forum, and was surprised to be met by a friendly and knowledgeable community.

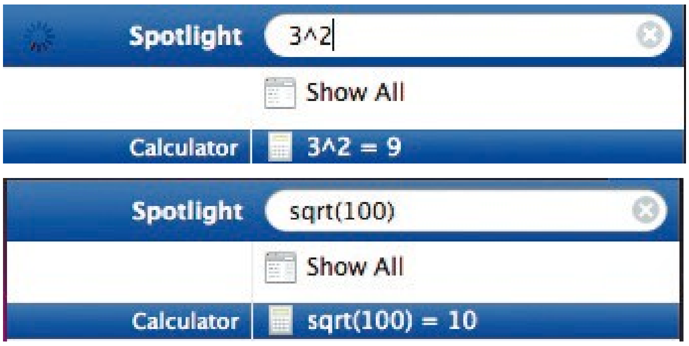
Needless to say, I eventually bought my 15.4-inch 2.66GHz MacBook Pro in Sheffield at the beginning of August, and I'm glad I that I did. I'm very proud of it. I've always been a PC user and was never interested in Macs, but recently problems with Vista and XP have put me right off Microsoft, and looking back now, I would never buy a PC again. There's only one OS that people need, and that's the one that roars!

Adam Hornsby

MacFormat replies: Thanks Adam. We're glad to have been of service. Welcome to the world of Apple!

MacBook Pro

Choosing your first Mac can be difficult, but MacFormat can help!



With Snow Leopard, Spotlight can calculate roots and powers like this.

off – through less frustration and less outlay – by not having upgraded. "No problem" was the eventual response. "You're right, it won't work, so we'll refund the cost and you can keep hold of the software with our compliments."

Not quite full marks, but a pretty convincing 9 out of 10.

Andy Ebben.

MacFormat replies: One factor that often gets overlooked when upgrading your Mac to a new version of the operating system (Snow Leopard in this case) is that you'll probably have to upgrade your main applications too, if you want to ensure full compatibility with the latest version of OS X and you want to take advantage of the enhancements it offers. This appears to be the case with both *Parallels* and *Office*. Quite often, this can involve additional expense.

Snow luck for Bluetooth

I would like to know why, when right-clicking a file in *Finder*, the More option is no longer available after installing Snow Leopard? It was there in OS X 10.5. I tended to use the **More** option to send files via Bluetooth. I can still send files via Bluetooth, but it's a little bit more long-winded now. I hope you can help. It's probably just me not being able to see the wood for the trees.

One other thing just jumped into the grey matter: when is *MacFormat* going to be shrunk into a travel-size magazine?

Matt Grainger

MacFormat replies: We're pleased to say that this particular Snow Leopard gripe is entirely fixable, Matt. All you need to do is go to Finder > Services > Services Preferences, and click the box marked Send File to Bluetooth Device. Now, when you right-click on a file, the Send to Bluetooth Device option is at the foot of the contextual menu. As for the travel-size magazine, I'm afraid we have no plans at this time.

Spot the squares and roots

I'd like to point out an error you made on page 38 of issue 213: you said: "Try using **Spotlight** as a quick calculator… It won't do powers or roots, though."

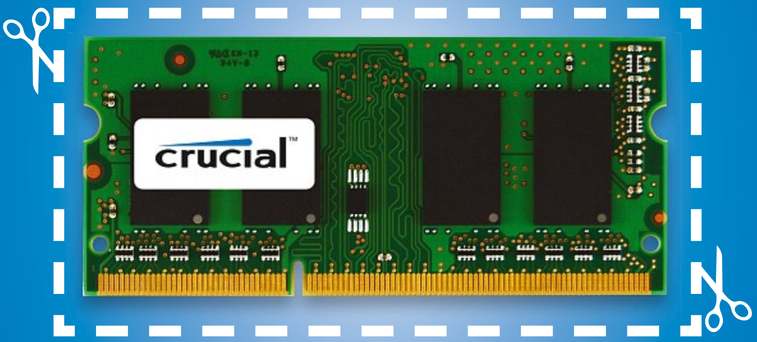
This is wrong, and has been since at least Leopard, and I have proof of both powers and roots. I was most disappointed to find this mistake in my favourite Mac magazine!

Josh Sunshine

MacFormat replies: It's not quite so simple, Josh. OS X 10.4 Tiger can't do either of your two examples, while the ^ symbol only works in Spotlight in OS X 10.6 Snow Leopard. Obviously somebody in Cupertino had a fun lunch hour. ●

Mac OS X Snow Leopard
The world's most advanced operating system. Finely tuned.
Mac OS X Snow Leopard

Upgrading to Snow Leopard, for some Mac owners, came at a price.



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SNOW LEOPARD
HOW TO

The ultimate guide to Snow Leopard

Want to know more about Apple's latest big cat? **Trevor Middleton's** been taming the beast – here's the verdict…

By the time you read this, Apple's latest take on Mac OS X – version 10.6 Snow Leopard – will have been out for a little over a month. It might not have the headline-grabbing bells and whistles of previous releases but it does offer solid improvements in performance. If you own an Intel Mac, that is.

Try to install Snow Leopard on your PowerPC Mac and you'll see a message stating that 'you can't install Mac OS X Snow Leopard on this computer'. The reason for this is simple: Apple wanted to make Snow Leopard as compact as possible, not only to save precious hard disk space, but also to optimise it so that it runs on the latest generations of Macs. And that meant taking out all the code that supported PowerPC Macs.

So how does it perform? Well, we've installed it on our test systems here in the *MacFormat* office and we'll be sharing our experiences with you. First of all, though, we'll take you through the answers to some questions you've been asking us. These are all genuine questions and we hope the answers will clear up any lingering doubts you might have about installing a new OS so close to its release date.

Finally, we'll be picking out the goodies you can look forward to using once you've installed Snow Leopard. Once you've tried it, we reckon you'll never look back! »

» ON THE DISC
Back up your files with SuperDuper!

Your Snow Leopard questions answered

Find out the answers to your pre-installation questions here

Question 1: I am currently running Mac OS X Tiger 10.4.11. Will I be able to upgrade to Snow Leopard?

Answer: In short, the answer is 'Yes, if you're running any Intel Mac'. The slightly less palatable news is Apple has made Snow Leopard available in two packages: one for those running Leopard (as a single-user upgrade disk, £25, or the 5-user Family Pack for £39), while for those still on Tiger, Apple recommends the Mac Box Set (£129 single user, 5-user Family Pack £179). The Box Set contains not only Snow Leopard but *iLife '09* (Apple's multimedia toolkit, including *iPhoto*, *iMovie*, *GarageBand*, *iDVD* and *iWeb*) and *iWork '09* (their suite of office applications), both of which are well worth having, but to discriminate against Tiger users in this way seems to us a little mean. We understand that the £25 version of Snow Leopard will upgrade your Mac if you're running Tiger, but Apple has made it clear that this would breach the licensing agreement – in other words, you might find yourself with an unsupported Mac.

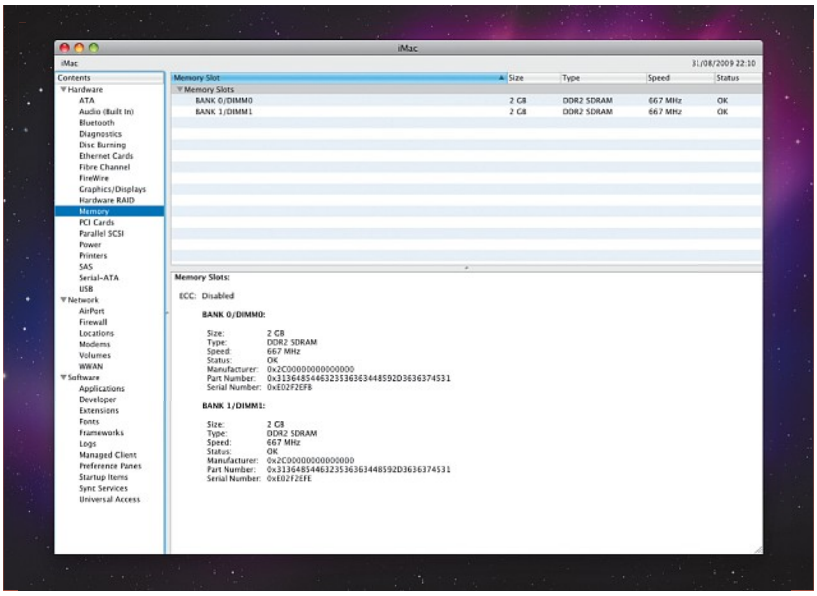
Finder File Edit View Go Window Help
Thu 10:49

There are several upgrade options but it does depend on your existing OS.

Question 2: How much RAM does my Mac need to run Snow Leopard?

Answer: The simple answer would be to quote Apple's own recommended minimum of 1GB. In our experience, however, we'd say that you can never have too much memory.

To check how much memory your Mac has, choose About This Mac from the menu at the top left of your screen, and you'll see a summary of your hardware setup. For more details, click on More Info… and Mac OS X's *System Profiler* will open up. Click on the triangle next to Hardware if you don't already see the list of hardware components below, then on Memory. *System Profiler* will now show you how many memory (RAM) slots there are on your motherboard, and how much memory there is in each.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Frameworks
Logs
Managed Client
Preference Panes
Startup Items
Sync Services
Universal Access

Memory Slot	Size	Type	Speed	Status
Memory Slots				
BANK 0/DIMM0	2 GB	DDR2 SDRAM	667 MHz	OK
BANK 1/DIMM1	2 GB	DDR2 SDRAM	667 MHz	OK

```
Memory Slots:

ECC:  Disabled

    BANK 0/DIMM0:

      Size:           2 GB
      Type:           DDR2 SDRAM
      Speed:          667 MHz
      Status:         OK
      Manufacturer:   0x2C00000000000000
      Part Number:    0x313648544632353636344859 2D3636374531
      Serial Number:  0xE02F2EFB

    BANK 1/DIMM1:

      Size:           2 GB
      Type:           DDR2 SDRAM
      Speed:          667 MHz
      Status:         OK
      Manufacturer:   0x2C00000000000000
      Part Number:    0x3136485446323536363448592D3636374531
      Serial Number:  0xE02F2EFE
```

Mac OS X's System Profiler is great for finding out more about your Mac, including how much RAM it has.

Bought a new Mac after June 8, 2009? Get your copy of Snow Leopard for £7.95.

Question 3: My MacBook's hard disk is running out of room! I understand that Snow Leopard is more economical on disk space – will I get away with upgrading the OS, or should I think about a new hard disk as well?
Answer: Apple claims that Snow Leopard can save you up to 7GB of space on your hard disk, which is pretty impressive. However, bear in mind that hard disks are used for more than permanent storage of data: whilst your Mac is processing data, some of it is temporarily stored in a 'swap file' on your hard disk, the size of this swap file depending on how much RAM your Mac has. As well as this, whenever you print a document the file is temporarily stored on your hard disk ('spooled') before being sent to your printer. All of which means that you need to keep, we'd say, at least 25% of your hard disk free to allow for use such as this. In the next section, we'll be telling you how to use Mac OS X's *Activity Monitor* to keep an eye on how efficiently your Mac's running so that, if necessary, you can take remedial action in the form of a new hard disk or extra RAM. So yes, given the relative cheapness of SATA hard disks, and their relative ease of replacement in newer MacBooks, we'd say go ahead and fit a new disk, especially if you were thinking about a clean install anyway. Don't forget, however, that you'll still need to back up your old hard disk before you remove it, or you could buy an external USB 2.0 enclosure from a specialist reseller such as www.storagedepot.co.uk before you upgrade.

Question 4: I have just bought a new 13-inch MacBook Pro: how can I get the upgrade to Snow Leopard and how much it will cost?
Answer: if you're lucky enough to have bought yourself a new Mac on or after June 8, 2009, you should be eligible to buy a copy of Snow Leopard for the cost of shipping: £7.95. You'll need to get your claim in within 90 days of your purchase, or by December 26th 2009, whichever is the earlier. For more details on how to claim your copy, visit www.apple.com/uk/macosx/uptodate.

There are two links to follow: one if you bought your new Mac from the Apple Online Store, and the other if you bought from an Apple Retail Store or Apple Authorised Reseller.

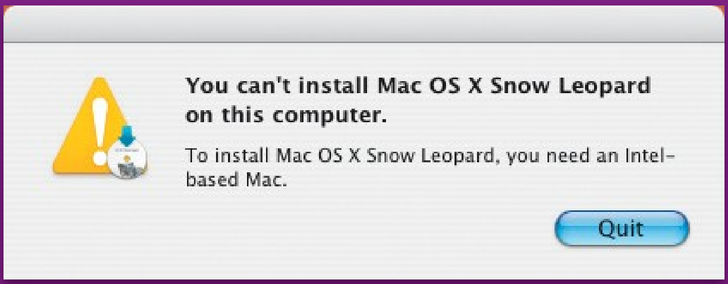
Question 5: Apple says that Snow Leopard is optimised for 64-bit processors, yet I have a Mac with a 32-bit Intel processor. Will it still be worth upgrading to Snow Leopard?
Answer: Whilst Snow Leopard is indeed optimised for the 64-bit Intel processors used in all current Macs, some earlier Intel Macs used Core Solo or Core Duo processors, which are 32-bit. In fact, there are still 32-bit versions of the OS and applications included on the Snow Leopard install DVD, and some applications such as *iTunes*, *DVD Player* and *Front Row* exist only in 32-bit versions at the time of writing. Indeed, if you really want to, you can choose to run the 32-bit version of an application even on your 64-bit Mac: go to Applications click the application's name and go to File > Get Info. Then, simply put a tick in the box next to Open in 32-bit mode, though quite why you'd want to is beyond us.

To find out which processor you have in your Mac, go to Applications > Utilities, launch *System Profiler*, and click on Hardware. If the processor named in the profile is one of the above, then your Mac will be 32-bit. Another guideline is chronology: all iMacs, MacBooks and MacBook Pros switched to 64-bit Core 2 Duo processors in late 2006, with the Mac Mini following in mid-2007. The Mac Pro has always been 64-bit.

In short, then, we'd say it's worth upgrading to Snow Leopard even if you have a 32-bit Mac, as you'll still get the benefit of Apple's refinements to applications like *Preview*, not to mention the saving in disk space.

»

Question 6: Will my PowerPC apps still run under Snow Leopard?
Answer: Yes, but you'll need to watch how you install Snow Leopard. After the Intel Macs were launched, Apple incorporated software called *Rosetta* into Mac OS X. Its purpose was to dynamically translate PowerPC apps to work on Intel Macs. This was intended as a short-term measure, to give developers time to work on Universal Binaries of their applications – that is to say, versions that are compatible with both PowerPC and Intel Macs. *Rosetta* is present in Snow Leopard as an optional install. If you have apps that are PowerPC only, choose to include *Rosetta* at the beginning of the installation process. Find out which apps are for PowerPC by launching *Activity Monitor* from Applications > Utilities and look in the **Kind** column.



You can't install Mac OS X Snow Leopard on this computer.

To install Mac OS X Snow Leopard, you need an Intel-based Mac.

Rosetta will help you get around problems associated with PowerPCs and Snow Leopard.

Steps to take before you install

The essential checklist for a stress-free installation

Move your iTunes Library to a network disk, such as the 2Big.

Apple is laying great stress on Snow Leopard being a quick and simple upgrade, and so it is. However, performing a system upgrade often gives you the chance to carry out a few basic checks on your Mac, maybe even perform some much-needed spring-cleaning, and generally make sure things are in order. That way, not only the installation will go as effortlessly as possible, but the day-to-day running of your Mac will be much smoother afterwards as well. As a general method, we'd suggest backing up your Mac's boot disk and reformatting it before installing a clean copy of Snow Leopard and transferring your files back using *Migration Assistant*. Here's the detail:

Step 1: Check your RAM

Snow Leopard needs 1GB of RAM, so if your Mac has less than this it'll struggle, if indeed it will install at all. As we said earlier, you can check how much memory your Mac currently has by choosing About This Mac from the menu. Alternatively, launch Mac OS X's *System Profiler*, either by clicking on the More Info… button in About This Mac, or directly from Applications > Utilities. A useful feature of *System Profiler* is that it will tell you how many memory slots your Mac has, and how much memory is in each: simply click on the expansion triangle next to Hardware (if it isn't already expanded) and click on Memory in the list of resources.

On the whole, we'd say that it's a good idea to fit as much memory as your Mac will take; failing that, fit as much as you can afford. If you're not sure how much RAM your Mac can hold, memory reseller Crucial's site (www.crucial.com/uk) has a step-by-step configuration tool to help you choose. You can also download a Mac system scanner from:

www.crucial.com/uk/systemscanner/MacOS.aspx.

Incidentally, this utility sends information back to Crucial's servers, so if you'd rather not leave it on your Mac you can run it from *Finder* and delete it afterwards.

For guidance on fitting more memory to your Mac you will need its manual, which will often list such details as what tools you'll need for the job. If you don't have your Mac's original manual to hand, you can download one from http://support.apple.com/en_US/manuals.

Step 2: Check how much space you have available on your hard disk

Once you've installed your new memory, it's time to put your hard disk in order. In fact, a system upgrade such as this is the perfect time to cast your eye over the contents of your hard disk and clear out the clutter. For instance, maybe now is the time to archive those *iMovie* projects that you burned to DVD long ago, or put that huge *iTunes* library onto a network drive so that the rest of your family can share it.

If you need help spotting which files are hogging your hard disk space, *Disk Inventory X* is a free application from

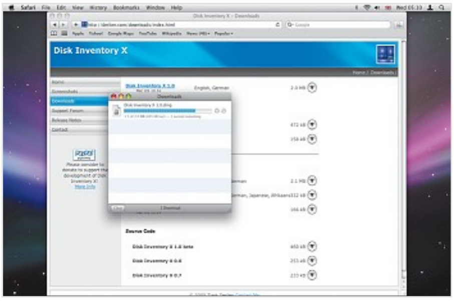
>> NEW SYSTEM / Hard disk update?

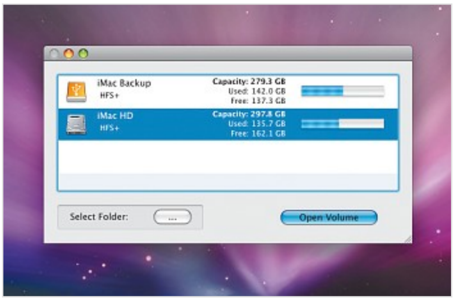
As we said earlier, a hard disk isn't just for permanent archiving of files – the free space is also used as temporary storage for data whilst it's being processed (think *Photoshop* scratch disk, for instance). It's therefore a good idea to have free space on your main boot disk – we'd say a minimum of 10 – 25%. In fact, once your hard disk gets to around 80-90% full we'd say you ought to think about getting a new one.

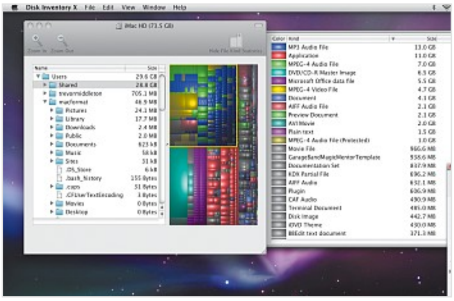
Hard disks are still dropping in price while their capacity is increasing – for instance, a 2.5" 500MB laptop drive will set you back around £80, while a 1TB 3.5" suitable for an iMac costs from around £60 – £70. For those with laptop Macs, drive replacement is as simple as putting a memory card into a camera, thanks to SATA hard disks being hot swappable.

Once your disk gets full, it could be time to get a new one.

» HOW TO / Get to grips with Disk Inventory X







01 Downloading Disk Inventory X

Go to **www.derlien.com** and click on the **Downloads** link. Ignoring the links to the source code, click on the **Disk Inventory X 1.0** download link. At present *Disk Inventory X* is a Power PC application.

02 Choose a volume

When the disk image mounts, drag *Disk Inventory X* to your **Applications** folder and launch it. Dismiss the message about a downloaded app and donation request (for now). You'll be given a choice of volumes to scan: choose one and click **Open Volume**.

03 Clear that clutter!

Once *Disk Inventory X* has scanned the volume, it will display the results as a treemap. Using this with the folders on the left and the legend on right, you can drill down through the contents of your hard disk and spot any large files that you might have forgotten about. ●

www.derlien.com that will scan your hard disk and show you where those half-forgotten lumps of data are hiding. *Disk Inventory X*'s idiosyncratic way of mapping the files on your hard disk might take a little getting used to, but it's certainly effective. See the tutorial above showing you how to use it.

Step 3: Back up your hard disk

This should go without saying, but just in case there are still some of you out there who don't back up, we'll say it again. For those who want plug-and-forget backup, Mac OS X's *Time Machine* does an excellent job, provided you have a good, big hard disk, or even Apple's own Time Capsule, which also doubles an Airport Extreme Base Station and wireless print server (currently priced at £229 for 1TB and £379 for 2TB).

If you're using Tiger, or you prefer a backup utility that creates a bootable clone of your main startup disk, there are a couple of options on offer: *Carbon Copy Cloner* (**www.bombich.com**) and *SuperDuper!* (£19.00, **www.shirt-pocket.com** or find version *2.6.1* on this month's disc). Either one of these will make scheduled, incremental backups of your files to an external drive (scheduling is available only in the paid-for version of *SuperDuper!*). We'll also show you how to back up using *SuperDuper!* as part of our Snow Leopard installation tutorial later.

For smooth wireless backups using Time Machine, Apple's Time Capsule comes in 1TB and 2TB flavours.

Step 4: Check that all your applications, drivers, plug-ins and add-ons are compatible with Snow Leopard

As with any major OS upgrade, there's a possibility that one or more of the applications you use regularly has yet to be updated for Snow Leopard compatibility. There are also lots of small application enhancements – plug-ins for *Photoshop* and *iTunes*, for instance – that are easy to overlook when you're in a hurry to upgrade and get back to work.

To avoid unpleasant surprises, then, check the current situation with the developers of your most frequently used software – look on the support section of their website or email them. Apple's technical support knowledge-base has a wealth of materials too, including this list of incompatible software: **http://support.apple.com/kb/HT3258**.

Should you go ahead and install Snow Leopard anyway, it will move any incompatible software to a new folder called **Incompatible Software** at the root level of your hard disk.

Step 5: Check whether your apps are PowerPC or Universal Binary

Once you've installed Snow Leopard, your Mac's operating system and most of its applications will be running in 64-bit mode – if you've a Mac with a 64-bit processor, that is. It therefore makes sense to use *Activity Monitor* (from Applications > Utilities) to find out if any of your other applications are still built solely for PowerPC Macs. You can then change, if possible, to those that come as Universal Binaries to run natively on Intel Macs, in order that your Mac is running as efficiently as it can. If you really can't find a Universal version of an application, or a different app that does the same job, then choose to install *Rosetta* along with Snow Leopard. »

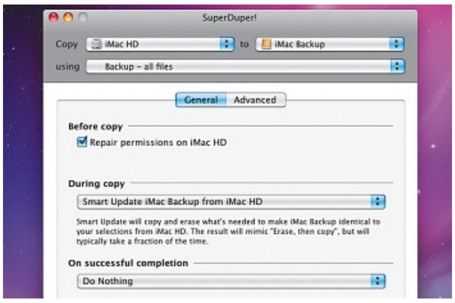
Installing Snow Leopard

Follow our installation guide and you'll make Snow Leopard purr…

Apple has always stressed that Snow Leopard was to be leaner, meaner and a quicker install than previous versions of Mac OS X. Be warned though: there might be no real headline-grabbers in terms of whizzy new features, but a lot has changed under the hood. So much, in fact, that we suggest reformatting your hard disk before installing. With an upgrade install there are likely to be legacy files from old versions of the OS, not to mention helper files from old apps. This is why, if you take your Mac to a service provider, their first step towards a diagnosis is often a zero-out reformat followed by a system reinstall.

If you have an up-to-date *Time Machine* backup, great. If you don't, we'd suggest using either *Carbon Copy Cloner* or *SuperDuper!* (find it on the disc) to create a bootable clone of your startup disk to an external hard disk. Once installation's finished, use Mac OS X's *Migration Assistant* to transfer your files and settings back.

>> HOW TO / Install Snow Leopard


SuperDuper!
General
Advanced

Copy: iMac HD to iMac Backup
using: Backup – all files

Before copy
☑ Repair permissions on iMac HD

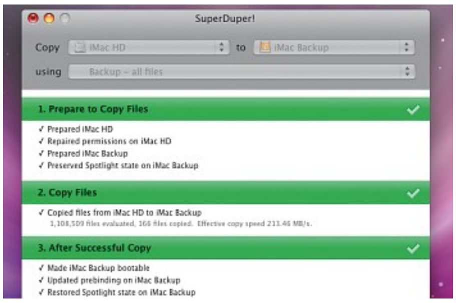
During copy
Smart Update iMac Backup from iMac HD

Smart Update will copy and erase what's needed to make iMac Backup identical to your selections from iMac HD. The result will mimic "Erase, then copy", but will typically take a fraction of the time.

On successful completion
Do Nothing

01 Getting backup

First we need to back up the startup disk we're upgrading. For this, we're going to use a licensed copy of *SuperDuper!*, which gives extra options for disk cloning. The interface is simple: choose your source disk from the left-hand pop-up, and your destination disk on the right.


SuperDuper!

Copy: iMac HD to iMac Backup
using: Backup – all files

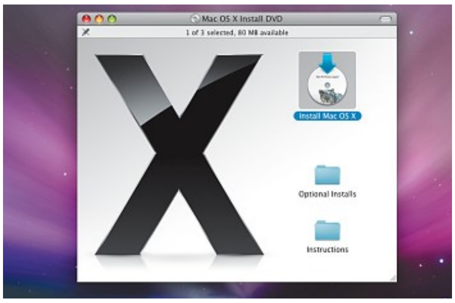
1. Prepare to Copy Files ✓
✓ Prepared iMac HD
✓ Repaired permissions on iMac HD
✓ Prepared iMac Backup
✓ Preserved Spotlight state on iMac Backup

2. Copy Files ✓
✓ Copied files from iMac HD to iMac Backup
1,108,509 files evaluated, 166 files copied. Effective copy speed 213.46 MB/s.

3. After Successful Copy ✓
✓ Made iMac Backup bootable
✓ Updated prebinding on iMac Backup
✓ Restored Spotlight state on iMac Backup

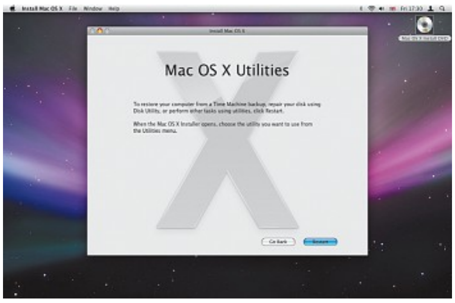
02 Boot disc, belt and braces

We now have a bootable backup. This will serve as a source from which we will transfer our files and other data back to our Snow Leopard installation. And if something goes wrong we'll have a working system from which to boot.


Mac OS X Install DVD
1 of 3 selected, 80 MB available
Install Mac OS X
Optional Installs
Instructions

03 Start from the top

Insert the Snow Leopard install DVD. At this stage you could restart and hold down C on your keyboard to instruct your Mac to boot from the optical disc. However, we'll double-click on the **Install Mac OS X** icon to show differences between this and previous installations.

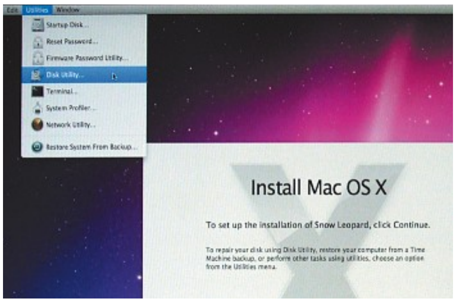

Install Mac OS X
File
Window
Help
Fri 17:30
Mac OS X Utilities
Go Back
Restart

To restore your computer from a Time Machine backup, repair your disk using Disk Utility, or perform other tasks using utilities, click Restart.

When the Mac OS X Installer opens, choose the utility you want to use from the Utilities menu.

04 Restarting your Mac

To perform a simple upgrade installation, click **Continue**, and you'll be taken through the necessary steps. However, we're going to show you how to boot from the DVD in order to use *Disk Utility* to reformat the hard disk. So, first click **Utilities**, then **Restart**.

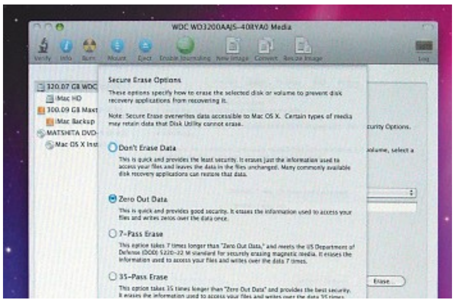

Edit
Utilities
Window
Startup Disk…
Reset Password…
Firmware Password Utility…
Disk Utility…
Terminal…
System Profiler…
Network Utility…
Restore System From Backup…
Install Mac OS X

To set up the installation of Snow Leopard, click Continue.

To repair your disk using Disk Utility, restore your computer from a Time Machine backup, or perform other tasks using utilities, choose an option from the Utilities menu.

05 Launch Disk Utility

Once your Mac has restarted from the DVD, choose **English** as the installation language and click until you see the menus appear. Go to Utilities > Disk Utility. Notice that the option to restore your system from a *Time Machine* backup also appears here.


WDC WD3200AAJS-40RYA0 Media
Verify
Info
Burn
Mount
Eject
Enable Journaling
New Image
Convert
Resize Image
Log
320.07 GB WDC
iMac HD
300.09 GB Maxt
iMac Backup
MATSHITA DVD-
Mac OS X Inst
Erase…

Secure Erase Options

These options specify how to erase the selected disk or volume to prevent disk recovery applications from recovering it.

Note: Secure Erase overwrites data accessible to Mac OS X. Certain types of media may retain data that Disk Utility cannot erase.

○ Don't Erase Data
This is quick and provides the least security. It erases just the information used to access your files and leaves the data in the files unchanged. Many commonly available disk recovery applications can restore that data.

● Zero Out Data
This is quick and provides good security. It erases the information used to access your files and writes zeros over the data once.

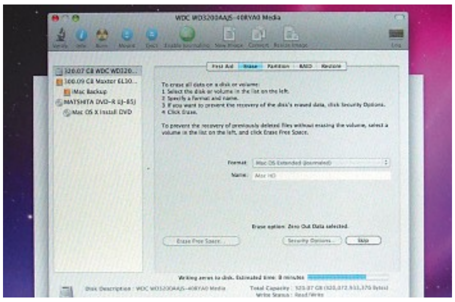
○ 7-Pass Erase
This option takes 7 times longer than "Zero Out Data," and meets the US Department of Defense (DOD) 5220-22 M standard for securely erasing magnetic media. It erases the information used to access your files and writes over the data 7 times.

○ 35-Pass Erase
This option takes 35 times longer than "Zero Out Data" and provides the best security. It erases the information used to access your files and writes over the data 35 times.

06 Choosing erase options

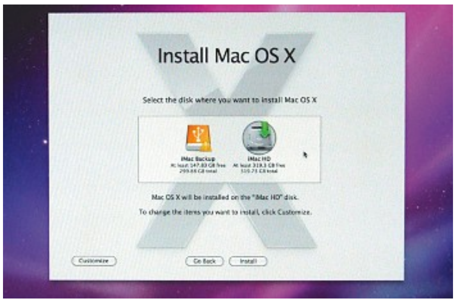
When *Disk Utility* has launched, choose the **Erase** tab. At this stage you could click **Erase** and carry on, but this won't actually erase your hard disk. So, click on **Security Options…**, then choose **Zero Out Data**. Click **OK**, then **Erase**. Be warned: this will take a while!

» HOW TO / Install Snow Leopard continued



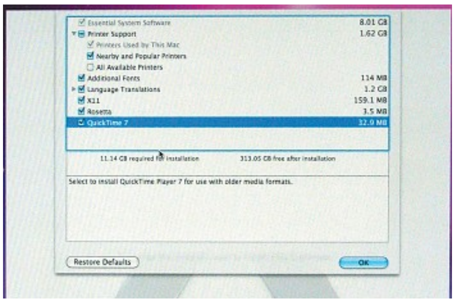
07 Nearly finished!

Since *Disk Utility* has written zeroes over all your data, your disk is now free of any old files that might cause glitches when you've installed Snow Leopard. This process takes an hour or so, depending on the size of your hard disk. Once it's finished, quit *Disk Utility*.


Install Mac OS X
Customize
Go Back
Install

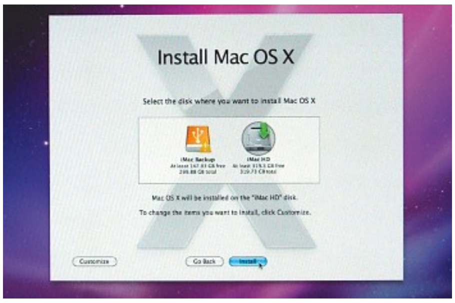
08 Choosing a disk

Once you've clicked through the licensing agreement, you'll be asked to choose which disk you want to install Snow Leopard to. Any hard drives you have attached to your system will also show up here. Make sure you chose the correct disk then click **Customise…**


Restore Defaults
OK

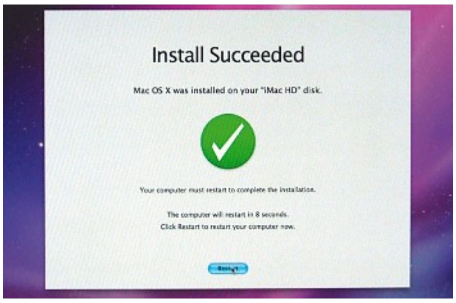
09 Installation options

A dropdown sheet will appear giving you more installation options. Click the expansion triangle next to **Printer Support** – notice the option to install **Nearby and Popular Printers**. *Rosetta* is an optional installation, which you can choose for PowerPC apps.


Install Mac OS X
Customize
Go Back
Install

10 More installation options

QuickTime 7 is also optional, and you can choose it for older media files. Also, if you only want to use Snow Leopard in English, remove the tick next to **Language Translations**. Once you're done click **OK**, then **Install**.


Install Succeeded
Restart

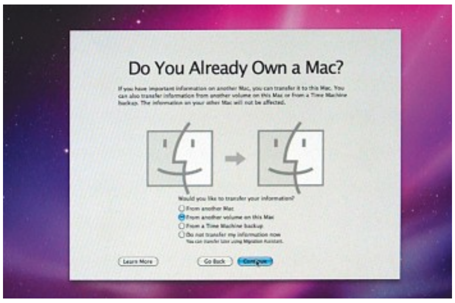
11 Installation time

An installation to a zeroed-out hard disk will take longer than an upgrade installation: this one took a little over an hour. However, once it's started there's no need to intervene, so you can leave your Mac to its own devices. When the installation's finished click **Restart**.

» QUICK TIP

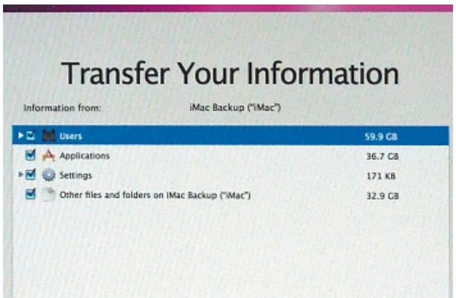
When you have completed your upgrade to Snow Leopard and the first time you launch the *Mail* application, don't be alarmed if some essential maintenance needs to be carried out.

There are applications such as *Mail* and *iPhoto* that use embedded databases to store all their data. You'll find that these need to be rebuilt occasionally to ensure optimum efficiency.


Do You Already Own a Mac?
Learn More
Go Back
Continue

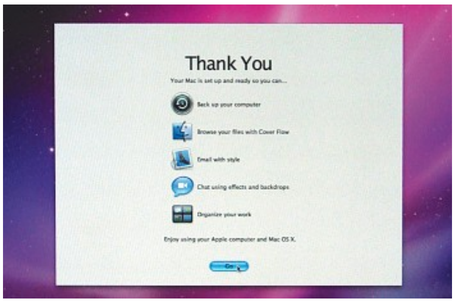
12 Transferring your data

When the welcome animation is done, choose your language and keyboard options, and click **Continue**. Next, *Migration Assistant* gives you the option of data from another Mac, another volume, or from a *Time Machine* backup. Make your choice and click **Continue**.


Transfer Your Information
Information from:
iMac Backup ("iMac")
Users 59.9 GB
Applications 36.7 GB
Settings 171 KB
Other files and folders on iMac Backup ("iMac") 32.9 GB

13 Choosing transfers

Next, *Migration Assistant* performs an inventory of the disk, volume or *Time Machine* backup you've chosen. You can click the expansion triangle next to items to filter out anything you don't want to transfer. When you're done, click **Transfer**.


Thank You
Go

14 Nearly done!

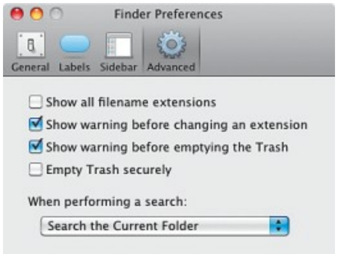
Once the data transfer has finished (this one took an hour) you'll be prompted to enter your personal details and register with Apple. Remove the tick from the checkbox if you don't want to receive marketing info. When this is done, click **Go…** and enjoy Snow Leopard! »

Snow Leopard at a glance

Take a closer look at Snow Leopard's Desktop and Dock…and more!

Many people's first reaction to Snow Leopard will be that it looks almost precisely like Leopard. However, you'll find that there are tons of little refinements in the new OS that make it so much more than just a simple maintenance upgrade.

Admittedly, not all the changes are visible: take, for instance, **Grand Central Despatch (GCD)**. This is a series of technologies that allow applications to use multicore processors (such as those in all current Macs) much more efficiently. In other words, you might not see **GCD**, but you can see the results. On these pages, however, we'll introduce you to some changes that are visible.



☐ Show all filename extensions
☑ Show warning before changing an extension
☑ Show warning before emptying the Trash
☐ Empty Trash securely

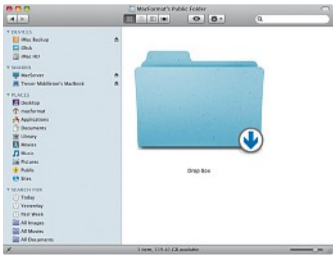
When performing a search:
Search the Current Folder

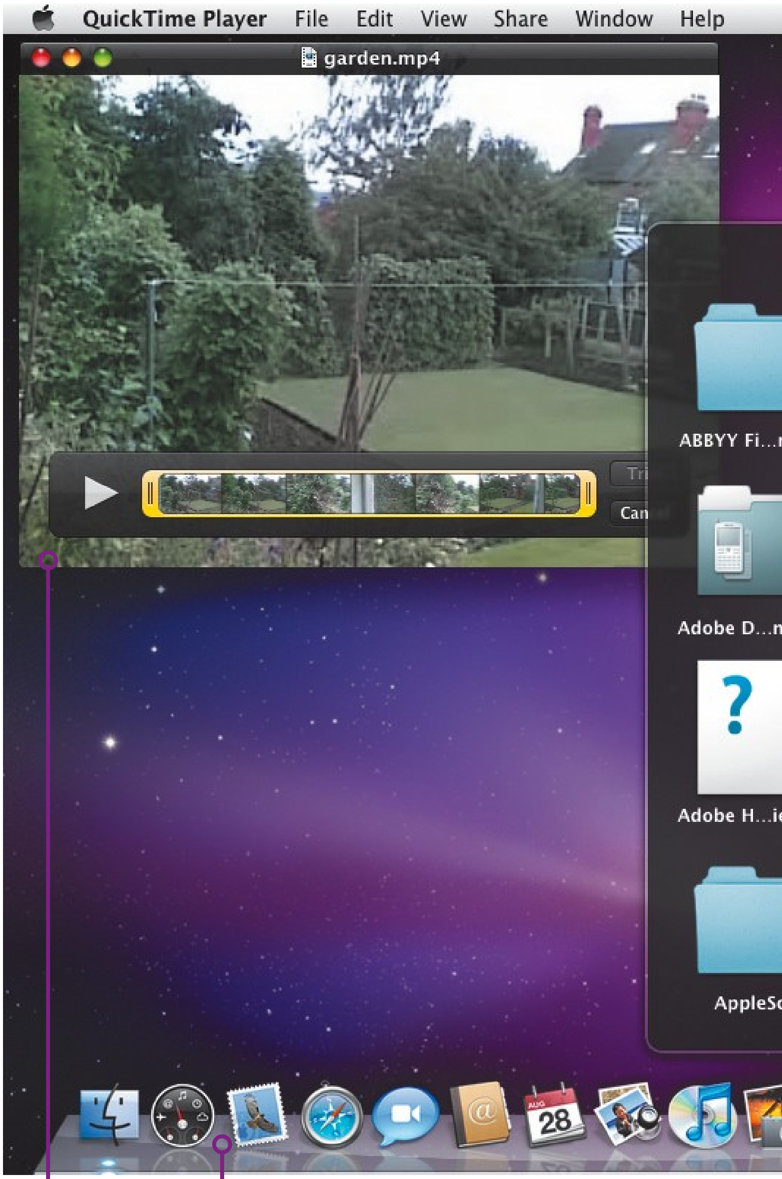
Finder overhaul

Finder is the most ubiquitous Mac OS X app. It's only appropriate, then, that Apple should have given it their full attention for Snow Leopard. In fact, it's been rewritten with full 64-bit support and to take full advantage of **Grand Central Despatch**. *Finder* windows are more useful now as well: in **Icons** view, look for the slider in the bottom-right corner that allows you to resize all icons. And you can flick through multi-page PDF docs right there without opening them.

Share more easily

Finder's window sidebar might not be brand spanking new, but it is a lot more responsive this time round. Take, for instance, the other Macs on your home network (and if your entire household connects to the internet through your Airport Base Station you already have a home network): click on the icon for any one of them and you're in. You can log in, share your screen, or even drop files on the other user's Desktop (or, more usually, in the **Drop Box** in their **Public** folder).





QuickTime X

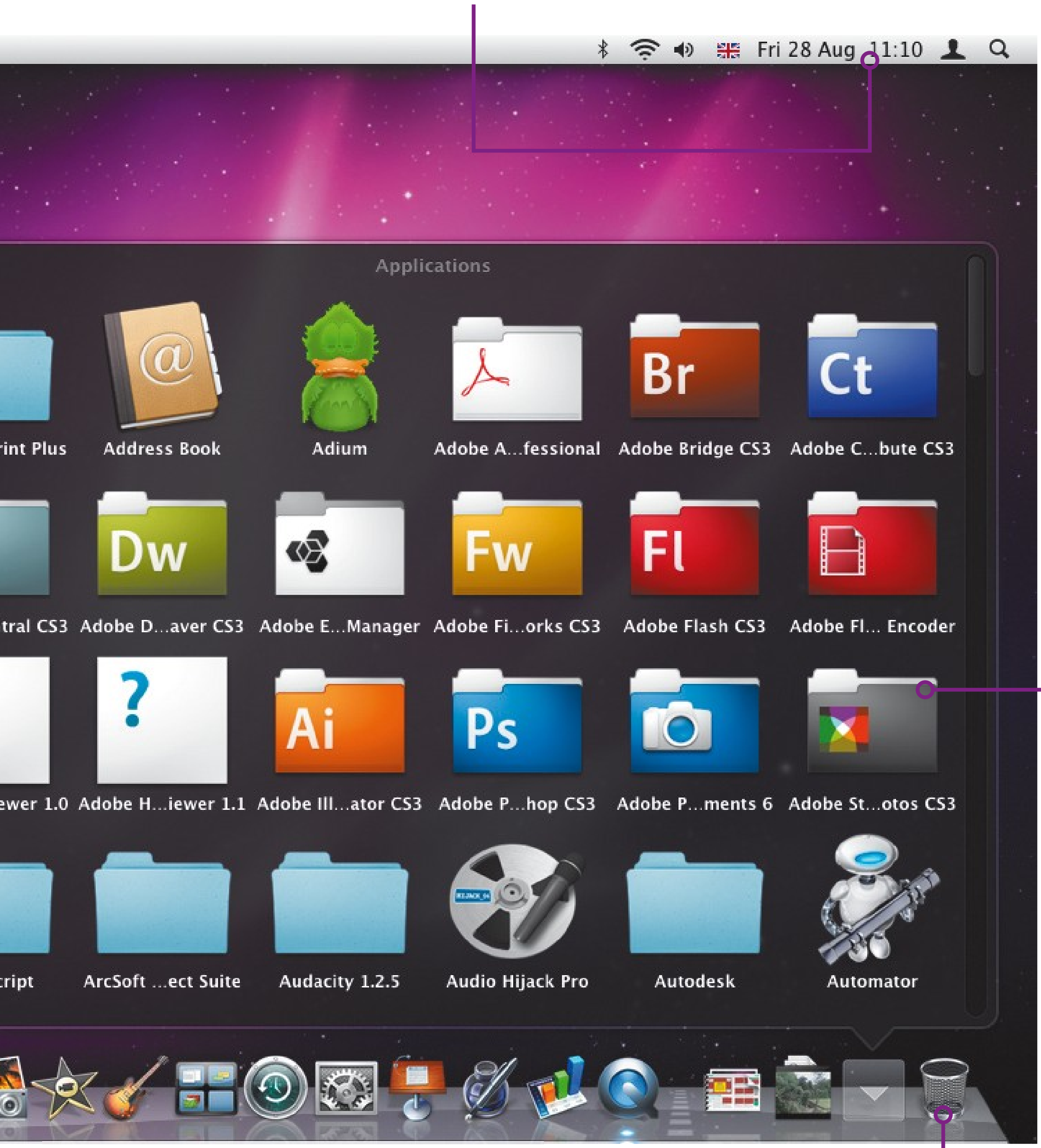
QuickTime Player X is fast shaping up to be one of the glories of the new OS. Want to do a quick and dirty edit of some cameraphone footage? That's no problem – just effortlessly Bluetooth it across to your Mac, open it up in *QuickTime X*, and then go to Edit > Trim. Next, use the yellow handles to set the trim points, hit **Trim**. You can now send your effort to *iTunes*, your MobileMe Gallery, or YouTube.

Supporters of the Dock

Over the years since its introduction, the Dock has come under a lot of criticism. However, we'd like to stand up and be counted as firm admirers. Now it has even more features to be proud of: click and hold an application icon in the Dock and you'll automatically invoke *Exposé*, separating each open window in that application. The other actions you can invoke from the Dock work more snappily too.

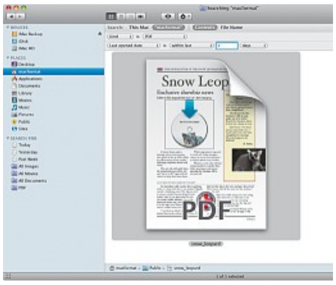
It's about time

Snow Leopard restores the harmony between the many features introduced into Mac OS X over the years – making them work together for the user. However, one element of the Mac OS X Desktop is making a welcome reappearance after many years in the post-Classic wilderness: yes, welcome back to the date and time in the menu bar! To restore your equilibrium, go to System Preferences > Date & Time, choose **Clock**, and put a tick in the checkbox next to **Show Date**.


Fri 28 Aug 11:10
Applications
rint Plus
Address Book
Adium
Adobe A...fessional
Adobe Bridge CS3
Adobe C...bute CS3
tral CS3
Adobe D...aver CS3
Adobe E...Manager
Adobe Fi...orks CS3
Adobe Flash CS3
Adobe Fl... Encoder
ewer 1.0
Adobe H...iewer 1.1
Adobe Ill...ator CS3
Adobe P...hop CS3
Adobe P...ments 6
Adobe St...otos CS3
ript
ArcSoft ...ect Suite
Audacity 1.2.5
Audio Hijack Pro
Autodesk
Automator

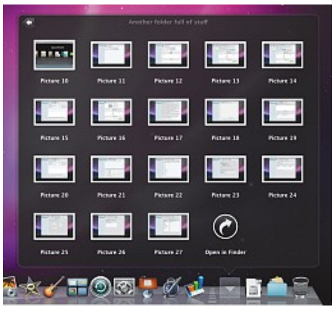
In the Spotlight

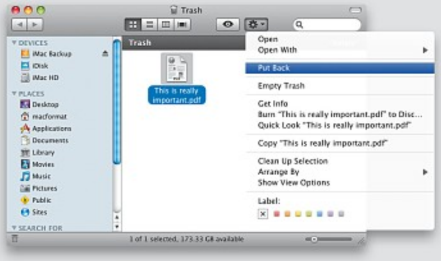
Spotlight hasn't escaped the, well, spotlight either, in Apple's attempts to make Snow Leopard a better OS. Ever tried to perform a *Finder* window search, only to find that **Spotlight** was trawling your entire Mac rather than the folder you're working in? That's been fixed too: go to Finder > Preferences, and choose **Advanced**. Then choose whether you want, by default, to **Search This Mac**, **Search the Current Folder** or **Use the Current Search Scope**.


Snow Leop
PDF

Stacks of class

To show that Snow Leopard is about those little subtleties that evidence courtesy to the user, step forward **Stacks**. Already useful as a quick way of showing the contents of frequently used folders, **Stacks** now has a scroll bar along the right-hand side to make navigating their contents easier. Open a folder within your Stack and it will also open in your chosen view, presenting you with a back arrow for reverting to the main Stack.


Another folder full of stuff
Picture 10
Picture 11
Picture 12
Picture 13
Picture 14
Picture 15
Picture 16
Picture 17
Picture 18
Picture 19
Picture 20
Picture 21
Picture 22
Picture 23
Picture 24
Picture 25
Picture 26
Picture 27
Open in Finder


Trash
DEVICES
iMac Backup
iDisk
iMac HD
PLACES
Desktop
macformat
Applications
Documents
Library
Movies
Music
Pictures
Public
Sites
SEARCH FOR
Trash
This is really important.pdf
Open
Open With
Put Back
Empty Trash
Get Info
Burn "This is really important.pdf" to Disc...
Quick Look "This is really important.pdf"
Copy "This is really important.pdf"
Clean Up Selection
Arrange By
Show View Options
Label:
1 of 1 selected, 173.33 GB available

Going through the Trash

Thrown something in the Trash and didn't mean to? Even worse, have you forgotten where it was from in the first place? Don't worry: Snow Leopard has a trick up its sleeve to help you: open Trash, select the item, and choose **Put Back** from the action menu (the cogwheel icon).

»

Your first steps with Snow Leopard

Here's a guide to more of the cool stuff in Snow Leopard…

By now, you'll be getting the idea that there's much more to Snow Leopard than just a few tweaks. Apple set out – as they put it themselves – to 'build a better Leopard', and it shows in every streamlined action and snappy response time. What that means for you, the user, is that you get some of your precious time back: time that you're not spending waiting for an application to launch or a spring-loaded folder to open. That in turn means less frustration: Snow Leopard (and Mac OS X in general) is about technology that respects the user by keeping out of their way.

What about Apple's other claims? For instance, does Snow Leopard really save your disk space? The iMac we're using had 152.06GB on its hard disk before we installed the new OS. And afterwards? It's currently showing 145.14GB used: a saving of 6.92GB. And that's as near as dammit to Apple's claimed 7GB saving, we reckon.

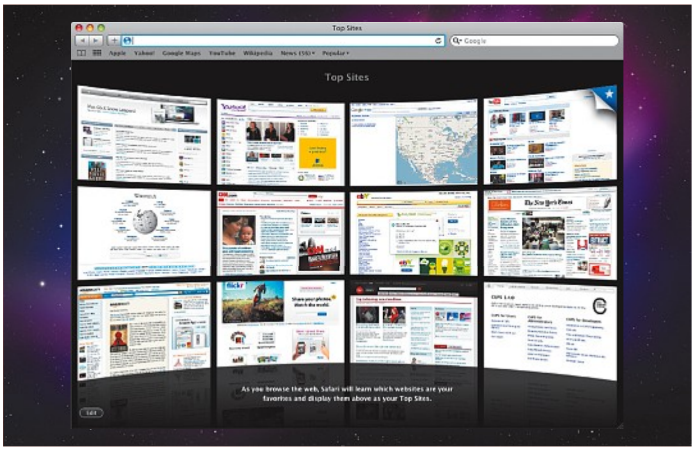
Extra support

One of the other aspects of Macs that we don't think gets nearly enough attention is their continued support for people with disabilities. From its early days, Mac OS had features such as *Sticky Keys* to help those who have difficulties using the keyboard. The *Universal Access* System Preferences pane now offers a wide range of support technologies built in to Mac OS X, and Snow Leopard incorporates the drivers for more than 40 models of Braille display (for more details see **www.apple.com/accessibility/voiceover/devicesupport.html**).

If you use your Mac at home, Snow Leopard now has built-in support for Microsoft's *Exchange Server* mail, calendars and contact lists. What does that mean? Well, if you've been trying to cajole your work's IT department into letting you bring your MacBook into the office, they've now run out of excuses! They'll find system requirements for *Exchange* on Apple's site: **www.apple.com/macosx/specs.html**.

All in all, then, would we say that it's worth upgrading to Snow Leopard – for those of you who can. If you have a PowerPC Mac, Leopard is still supported, and will be updated for a while yet.

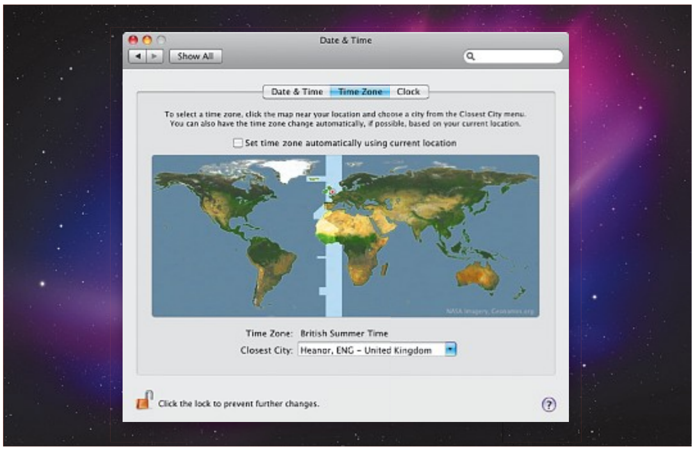
What follows is a summary of some of the features of Snow Leopard that we're enjoying. And we're pretty sure you'll enjoy them too.



As you browse the web, Safari will learn which websites are your favorites and display them above as your Top Sites.

01 Safari – so good

Alright, we know – *Safari 4.0* has actually been out for quite a while now, but for some of you, this might be the first time you've seen it. Certainly Snow Leopard's default browser has much to recommend it: rendering of pages is fast, accurate and mostly error-free. It's even one of the most standards-compliant browsers out there, and passes the Web Standards Project's stringent Acid 3 Test with flying colours (visit **www.acidtests.org** for more details).



To select a time zone, click the map near your location and choose a city from the Closest City menu. You can also have the time zone change automatically, if possible, based on your current location.

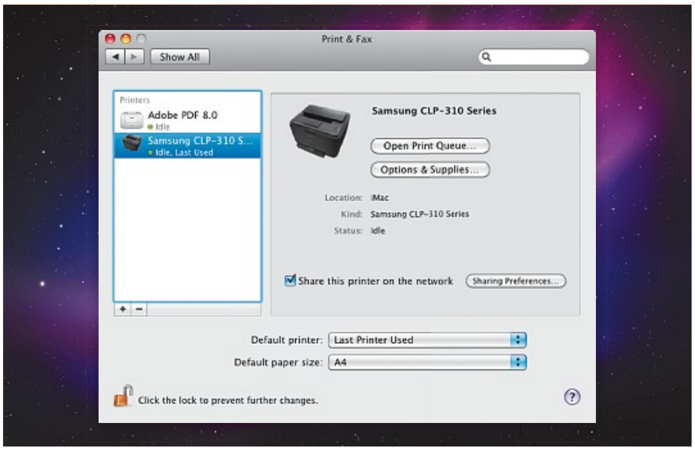
☐ Set time zone automatically using current location

Time Zone: British Summer Time
Closest City: Heanor, ENG – United Kingdom

Click the lock to prevent further changes.

02 Where in the world…

Take a look at the **Time Zone** tab in System Preferences > Date & Time. You'll probably find it's now a much more accurate reflection of wherever you are at present. That's because Snow Leopard rather helpfully uses the same Core Location technology as the iPhone and iPod touch to work out your exact location. And if you're the globetrotting type, no longer will you need to remember to reset the time zone after a journey – Snow Leopard does that automatically too.



Printers
Adobe PDF 8.0 – Idle
Samsung CLP-310 S... – Idle, Last Used

Samsung CLP-310 Series
Location: iMac
Kind: Samsung CLP-310 Series
Status: Idle

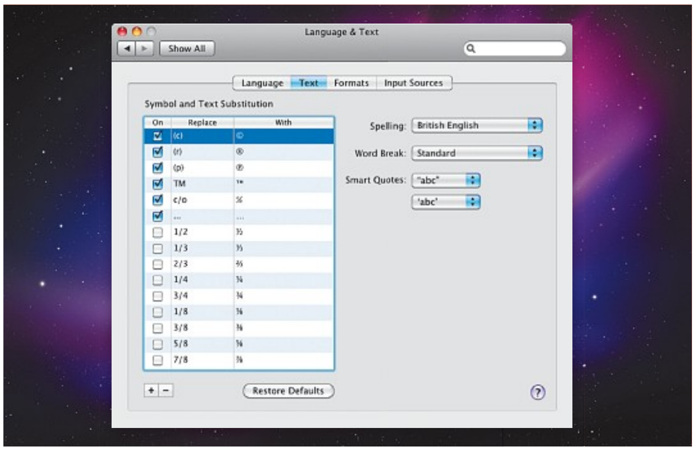
☑ Share this printer on the network

Default printer: Last Printer Used
Default paper size: A4

Click the lock to prevent further changes.

03 Printer support

Mac OS X has always been a good citizen when it comes to supporting a large number of printers. And now it's even more helpful than ever before. It will look for local printers on installation, and even checks for their latest drivers over the internet. The underlying technology behind Snow Leopard's printer support is called CUPS (which stands for Common Unix Printing System) and it's also a brand-new feature this time around.



Symbol and Text Substitution

On	Replace	With
☑	(c)	©
☑	(r)	®
☑	(p)	℗
☑	TM	™
☑	c/o	℅
☑	...	…
☐	1/2	½
☐	1/3	⅓
☐	2/3	⅔
☐	1/4	¼
☐	3/4	¾
☐	1/8	⅛
☐	3/8	⅜
☐	5/8	⅝
☐	7/8	⅞

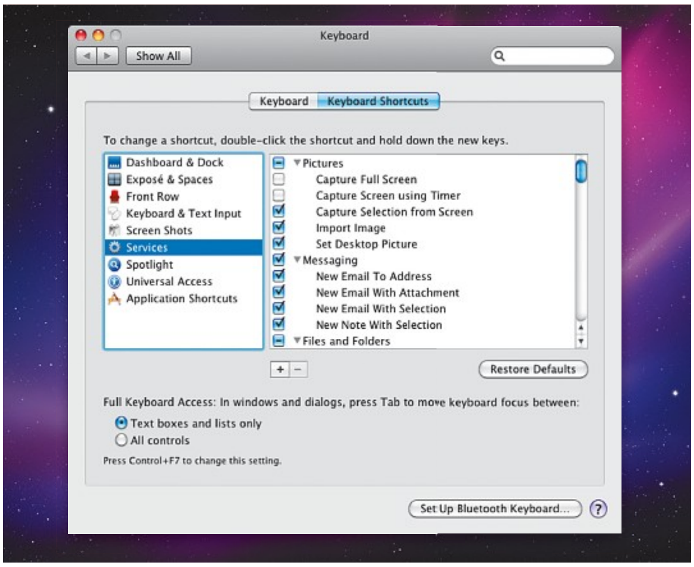
Spelling: British English
Word Break: Standard
Smart Quotes: "abc"
'abc'

04 Watch your language

The **International System Preferences** pane has received a makeover too. Now called **Language & Text**, it's a point of reference for all system-related uses of text. Here's where you set your Mac to use British-English spelling, and also set up keyboard shortcuts for symbols and phrases. For instance, already enabled for you is the shortcut that converts '(c)' into ©. You can also use it to turn simple combinations of letters into words or phrases: for instance 'MF' could become 'MacFormat'.

05 Taking a shortcut

Remake or remodel could be the watchwords for Snow Leopard with **Keyboard** being another of the **Preferences** panes receiving an overhaul. Once you've launched it, choose the **Keyboard Shortcuts** tab and you'll see what we mean. Now properly codified, **Keyboard Shortcuts** offers you – the user – the chance to add, remove or modify the keyboard shortcuts you want. For instance, if there's an application you want to launch with the touch of a key, go ahead. Want to change the default keys for *Exposé*? No problem.



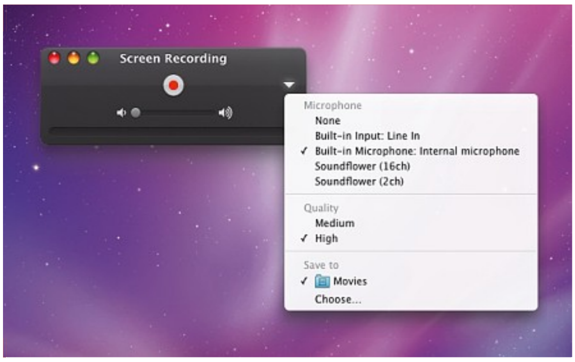
To change a shortcut, double-click the shortcut and hold down the new keys.

▼ Pictures
☐ Capture Full Screen
☐ Capture Screen using Timer
☑ Capture Selection from Screen
☑ Import Image
☑ Set Desktop Picture
▼ Messaging
☑ New Email To Address
☑ New Email With Attachment
☑ New Email With Selection
☑ New Note With Selection
▼ Files and Folders

Full Keyboard Access: In windows and dialogs, press Tab to move keyboard focus between:
● Text boxes and lists only
○ All controls
Press Control+F7 to change this setting.

»QUICK TIP

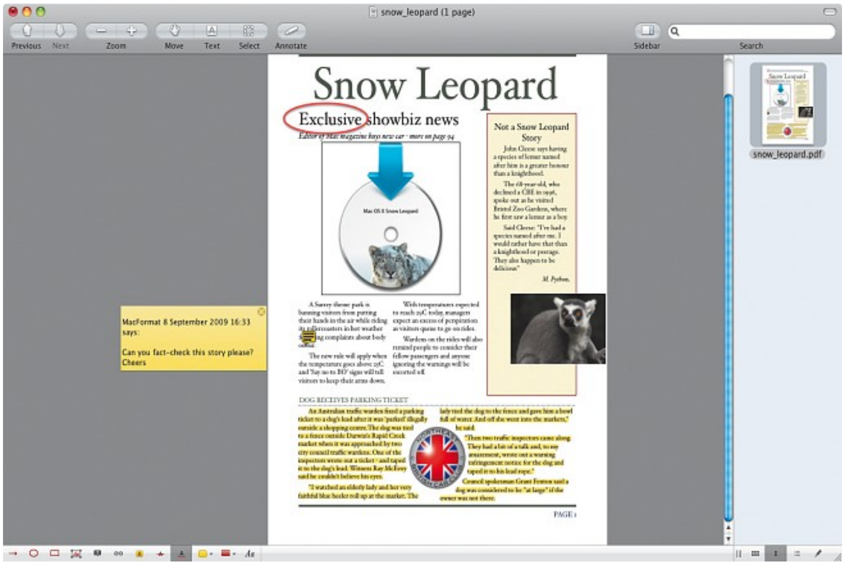
Use the **Kind** column of Mac OS X's *Activity Monitor* to spot PowerPC processes or apps prior to upgrading to Snow Leopard. Then decide whether you replace them with Universal apps or install *Rosetta* to translate them on the fly. However, the occasional one can slip through the net when you transfer your files and apps after installing. No problem: to track it down double-click its name in the *Activity Monitor* window and, if it's an application, click on the **Open Files and Ports** tab. Among the info here you should be able to read its location before deciding what to do with it.



Microphone
None
Built-in Input: Line In
✓ Built-in Microphone: Internal microphone
Soundflower (16ch)
Soundflower (2ch)
Quality
Medium
✓ High
Save to
✓ Movies
Choose...

06 For the record

Ever had to explain one of the finer points of Mac OS X to a Mac newbie over the phone? Well, now you don't have to, thanks to *QuickTime X* (you could always ignore your phone of course, but that would be rude). In *QuickTime Player X*, go to File > New Screen Recording, use the pulldown menu to choose your sound and quality settings, choose a place to save your movie, and record yourself explaining the problem with full visuals. You could even post your tutorial masterpiece to YouTube (go to Share > YouTube…).



MacFormat 8 September 2009 16:33 says:

Can you fact-check this story please? Cheers

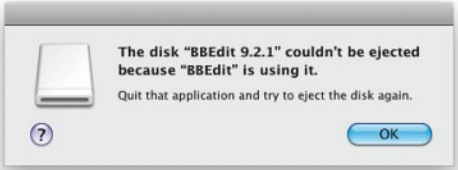
>> QUICK TIP

If you have Snow Leopard as well as a compatible Airport Extreme or Time Capsule, *Bonjour* - Mac OS X's zero-configuration networking protocol - lets you share your files even if the Mac they're on is in **Sleep** mode.

07 Exclusive Preview

And the updated features just keep on rolling in - including *Preview*, which proudly continues with its onward march towards being one of the most useful applications bundled with Mac OS X. Its handling of text selection from PDFs is absolutely superb now, and it will even grab text that is arranged in columns.

Annotations have also seen something of an improvement in this version too. If you click on the **Annotate** toolbar button you'll see that a full toolbar appears at the bottom of the application window. You'll find that this makes it much easier to select and use multiple tools, further speeding up your work and increasing your efficiency.

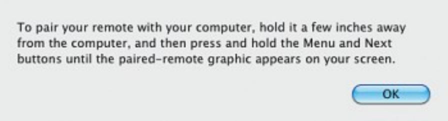


The disk "BBEdit 9.2.1" couldn't be ejected because "BBEdit" is using it.

Quit that application and try to eject the disk again.

08 Disk-onsolate…

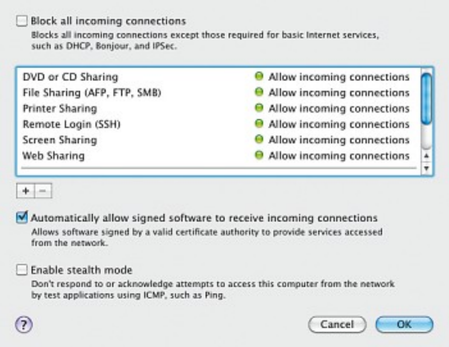
Do you remember the bad old days, when you'd try to eject a disk from your Mac's desktop, only to be told that it couldn't be ejected because it was '…in use by another application'? Extremely frustrating. But which application was actually using it? Snow Leopard now works out which application is currently using the disk in question. It will then present the information in the 'disk in use' dialogue before advising you to quit the application and try it again.



To pair your remote with your computer, hold it a few inches away from the computer, and then press and hold the Menu and Next buttons until the paired-remote graphic appears on your screen.

09 Pair remote

Using the **General** tab of the **Security System Preferences** pane you can also choose to pair your Apple Remote with your Mac so that another remote in the vicinity doesn't trigger *Front Row*, either by accident or design: simply click **Pair…**, and follow the on-screen instructions. You can also disable all remotes: handy if you're in an open location and your Mac might pick up signals from others.



☐ Block all incoming connections
Blocks all incoming connections except those required for basic Internet services, such as DHCP, Bonjour, and IPSec.

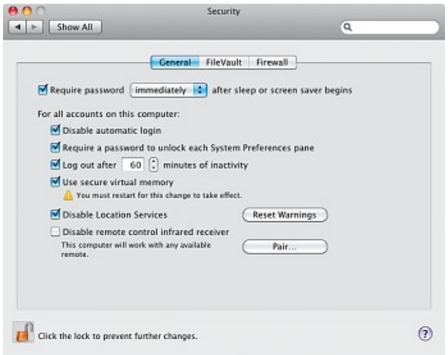
DVD or CD Sharing	● Allow incoming connections
File Sharing (AFP, FTP, SMB)	● Allow incoming connections
Printer Sharing	● Allow incoming connections
Remote Login (SSH)	● Allow incoming connections
Screen Sharing	● Allow incoming connections
Web Sharing	● Allow incoming connections

☑ Automatically allow signed software to receive incoming connections
Allows software signed by a valid certificate authority to provide services accessed from the network.

☐ Enable stealth mode
Don't respond to or acknowledge attempts to access this computer from the network by test applications using ICMP, such as Ping.

10 Firewall

To prevent unauthorised servers contacting your Mac, go to System Preferences > Security > Firewall, and hit **Start** (you might need to authenticate first; click the padlock icon and enter an administrator password). To enable incoming connections for certain apps click **Advanced…**, then add the app you want by clicking **+**, finding the app and clicking **Add**.



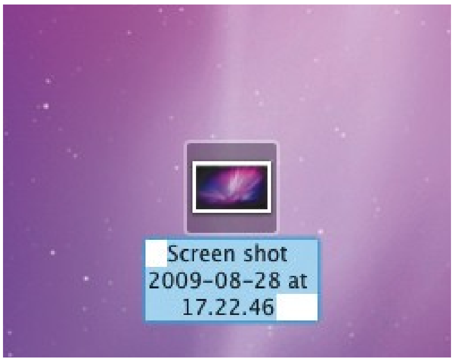
☑ Require password immediately after sleep or screen saver begins

For all accounts on this computer:
☑ Disable automatic login
☑ Require a password to unlock each System Preferences pane
☑ Log out after 60 minutes of inactivity
☑ Use secure virtual memory
You must restart for this change to take effect.
☑ Disable Location Services
☐ Disable remote control infrared receiver
This computer will work with any available remote.

Click the lock to prevent further changes.

11 Control remotes

Using the **General** tab of the **Security System Preferences** pane you can pair your Apple Remote with your Mac so that another remote in the vicinity doesn't trigger *Front Row*: simply click **Pair…**, and follow the on-screen instructions. You can also disable all remotes: handy if you're in an open location and your Mac might pick up signals from others.



12 How does that grab you?

To make a screenshot hit ⇧+⌘+3 to grab the whole screen, ⇧+⌘+4 to grab a window. Not so long ago, you'd have to wade through images named **Picture 1**, **Picture 2**, and so on, to find the right one. Well, not any more: Snow Leopard adds the date and time to screenshot file names, making it easy to find the one you need.

Get started with Exchange

Find out more about taking your Mac to the workplace

For those who take their Macs into a Windows-dominated work environment, here's the good news: Snow Leopard has built-in support for *Exchange Server 2007*. *Exchange Server* (formerly Microsoft *Mail*) is a widely used corporate email, calendar and messaging server, and is a separate piece of software installed in addition to *Windows Server*. There are other packages offering similar functions (*Zimbra*, for instance, is a solution that uses open source technologies [www.zimbra.com; prices start at £380 for 25 users] while *Kerio Mailserver* [www.kerio.com, £389 for 10 users] is a proprietary product similar to *Exchange*), so your IT department might not necessarily be using *Exchange*. Chances are, however, that they are: check with them for details.

Using *Exchange Server*'s client services, you can retrieve your work emails and check your work calendar and contacts, with everything administered centrally from the *Exchange* server. That way the contact details of any new colleagues, changes to meeting plans and urgent internal messages can be instantaneously sent to any Mac or PC client, as well as being pushed to your iPhone (using iPhone OS' built-in support for *Exchange Server*) or Windows Mobile smartphone using *Exchange ActiveSync*. For more on using your iPhone for business, see: **www.apple.com/iphone/business.**

For compatibility with Snow Leopard, your work server will need to be running Microsoft *Exchange Server 2007 Service Pack 1 Update Rollup 4*. The auto-setup of this will require the enabling of the **Autodiscovery** feature of Microsoft *Exchange Server*.

» QUICK TIP

Apple's own server software – *Snow Leopard Server* (£390 for unlimited clients) – has built-in mail, calendar and contact services, uses standard protocols, and supports Mac, PC and iPhone clients.

» HOW TO / Set up your Mac to use with work email, calendar and contacts

01 Setting up Mail

For easy configuration of *Exchange 2007* accounts, your exchange server will need to have **Autodiscovery** enabled (check this with your IT department). If not, you'll need to get the server details and enter them manually. First open *Mail*, then go to Mail > Preferences.

02 Add an Exchange account

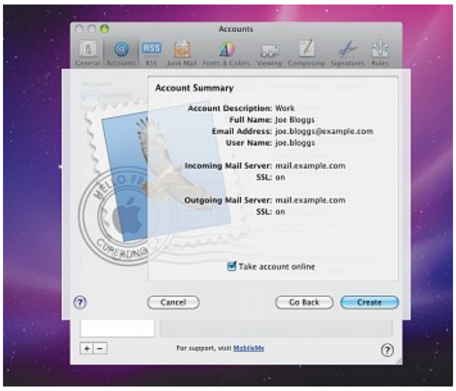
Click the **Accounts** toolbar icon, then **+** to add an account, as you would any other account.

03 Enter your details

Next, enter your name as it should appear in the **From** column in the recipient's email. Include the company name and your job title and/or department if necessary.

04 Enter your Exchange Server details

If **Autodiscovery** is enabled the server details will populate the appropriate fields in the account setup wizard; if not, the **Incoming Mail Server** sheet will appear. Choose **Exchange 2007** from the **Account Type** popup menu. In the steps that follow you'll be setting up a client access server: start by entering a server description (optional) and your *Exchange* user name and password. To set up *iCal* and *Address Book* to access *Exchange* calendar and contacts automatically, select one or both of those options. Click **Continue**, and choose whether or not you want to use SSL for incoming mail (your IT department will have told you this).



Account Summary

Account Description: Work
Full Name: Joe Bloggs
Email Address: joe.bloggs@example.com
User Name: joe.bloggs

Incoming Mail Server: mail.example.com
SSL: on

Outgoing Mail Server: mail.example.com
SSL: on

☑ Take account online

It's really simple to set up Mail to function along with your work Exchange account.

05 Confirm your Exchange Server setup

The **Account Summary** sheet will appear: this is your final chance to check the details you've entered before you create your *Exchange* account. If you want to check the server for messages, contacts and appointments as soon as the account is created, select **Take account online** by ticking the checkbox. Click **Create**.

06 Exploring the alternatives

For those of you who aren't planning to upgrade to Snow Leopard just yet (perhaps you still have PowerPC Macs in your office), there is another way of accessing *Exchange Server* from your Mac: install the standard edition of Microsoft *Office 2008* (the *Home and Student Edition* doesn't have *Exchange* support). Admittedly, at around £340 it isn't the cheapest solution, but if you're on Mac OS 10.4.9 or later, and your Macs have a minimum of 500MHz or faster G4 processors, then this might be the solution for you. Another reason for going down this route might be that your server still has an earlier version of *Exchange Server* installed: Microsoft specifies *Exchange Server 2000* or better for *Office 2008*. See **www.microsoft.com/mac** for more details. Whichever solution you choose, there's no longer any justification for the accusation that Macs have no place in the corporate world. With the incorporation of *Exchange* support, Snow Leopard has managed the difficult feat of putting Macs in the heart of the workplace. ●

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Take part and you could win one of two Elgato Turbo.264 HD Stick and EyeTV 250 Plus bundles, worth £320!

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EyeTV 250 Plus

The Elgato EyeTV 250 Plus is a video converter and TV tuner for watching analogue or digital TV on your Mac. It has a hardware encoder for higher quality recordings and smaller video size, and comes with the powerful EyeTV 3 software for scheduling recordings and pausing live TV, plus a one-year subscription to the TV Program Guide. You can even use it to convert your TV recordings into a format that plays back perfectly on your iPhone, iPod or Apple TV.

System requirements:
Mac with a PowerPC G4, G5 or Intel Core processor, 256MB RAM (512MB recommended), USB 2.0 port, Mac OS X 10.4 or later, internet connection required to download Program Guide data. Note: 720p or 1080i HD features require a Dual PowerPC G5 or an Intel Core Duo processor

Turbo.264 HD Stick

Elgato's Turbo.264 HD Stick is a great little device that can dramatically speed up your video-conversion tasks. Once connected to your Mac it takes the load off its CPU, so that video is converted in a flash. Now there's no more waiting around to get video off your camcorder into a watchable format on your Mac.

System requirements:
Mac with Intel Core processor, 512MB RAM, USB 2.0 port, Mac OS X 10.5.6 Leopard (or later), *QuickTime 7.6* (or later)

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> Which sections do you find most useful?

> What would you like to see more of in future issues?

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>> From the team

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Review: KavaMovies
Ian Osborne

"How I saved myself £499 (the cost of a new Mac mini) with a five quid bit of plastic."

Lens cleaner in 'actually works' shocker!
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"Screen-sharing in Show Leopard has had some welcome tweaks; Happily, you can now create desktop shortcuts for your Macs."

Improvements to screen sharing in Snow Leopard
Christopher Phin

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How to...

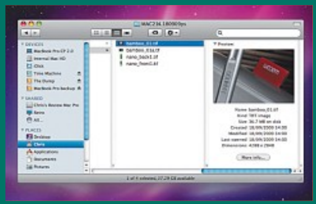
● PHOTOS ● MOVIES ● MUSIC ● OFFICE ● SYSTEM

Christopher Phin
Deputy Editor

One of the joys of my job is that, no matter how much I think I know about the Mac, there are always folks out there who have additional specialist knowledge that surprises and delights me. Steve Paris's tutorial this month on editing a movie to the beat of a song is a great example; good editing is a dark art, but this handy little cheat in *iMovie* is a great way to give your home movies a tight, professional polish.

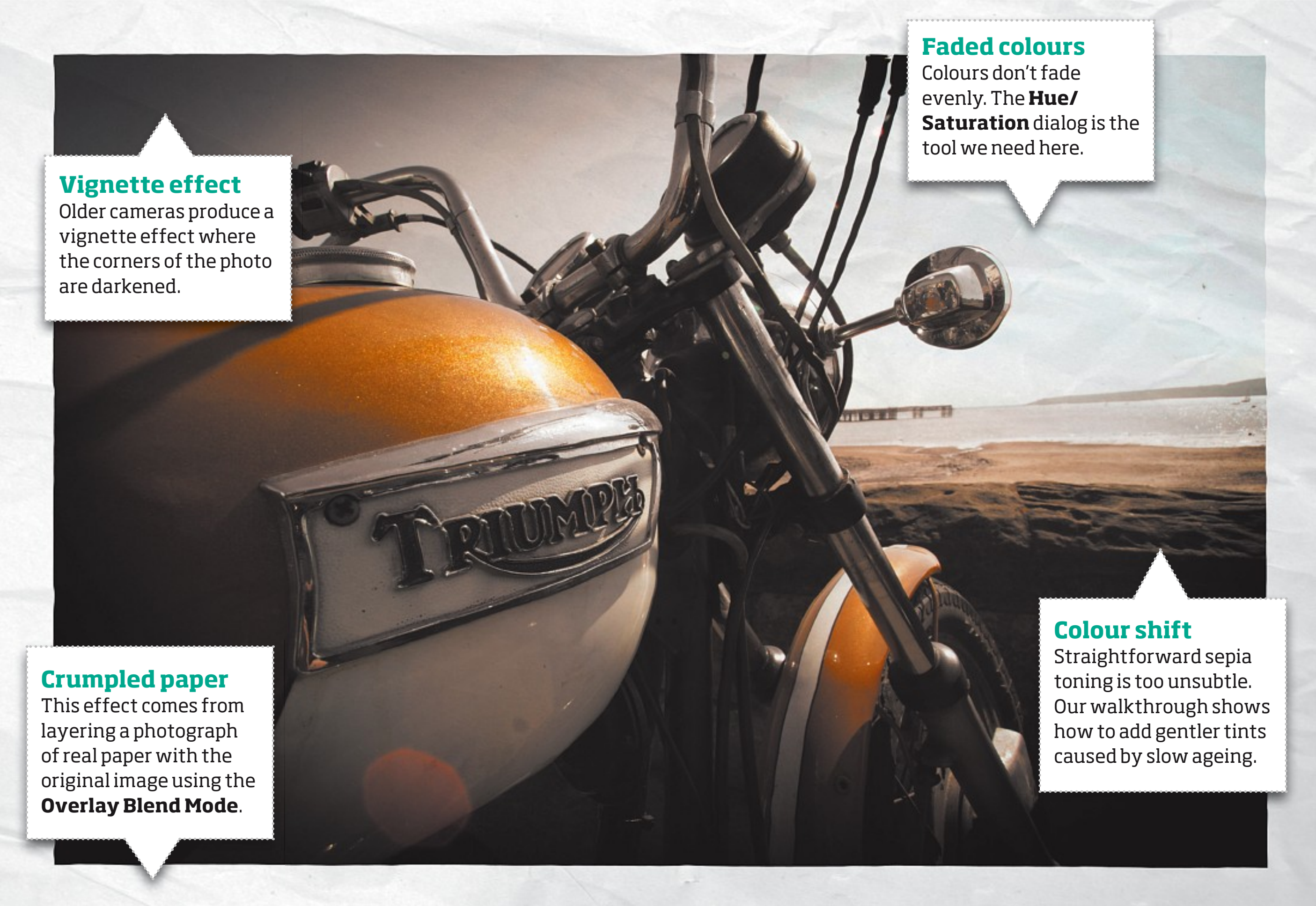
I also love the stuff Craig Grannell knows about system-wide ways to improve your Mac-using life, and his tutorial this issue on *Exposé* is required reading, I think, for everyone – regardless of how long you've been using a Mac. It also cover the new Snow Leopard aspects.

There's a whole lot more to get your teeth into too, and remember that we're always happy to hear from you if you think we haven't got the balance of tutorials just right for you. We can't promise to act on all your suggestions, but if there's an obvious appetite for a particular topic, then we'll definitely introduce more tutorials that cover it. Email us at **macformat@futurenet.com**



>> DID YOU KNOW?

If you've upgraded to Snow Leopard, you can zoom in to an images' thumbnail in **Column** view. Simply move your pointer to the image, hold down ⌥ and scroll.



Vignette effect
Older cameras produce a vignette effect where the corners of the photo are darkened.

Faded colours
Colours don't fade evenly. The **Hue/Saturation** dialog is the tool we need here.

Crumpled paper
This effect comes from layering a photograph of real paper with the original image using the **Overlay Blend Mode**.

Colour shift
Straightforward sepia toning is too unsubtle. Our walkthrough shows how to add gentler tints caused by slow ageing.

Age a new photo

Make a modern digital image look like a crumpled keepsake

>> KEY INFO

DIFFICULTY: Expert

TIME NEEDED: 60 minutes

WHAT YOU'LL NEED: Adobe Photoshop or Elements for Mac (from £68, **www.adobe.com/uk**), a digital camera, some creased paper

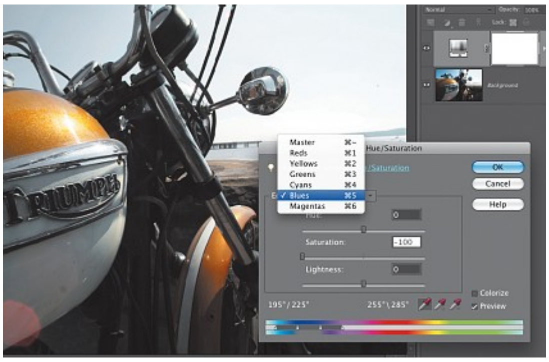
Recreating the look of an old, worn photo isn't necessarily a straightforward process. Producing a realistic simulation may require a number of techniques rather than one magic bullet.

Our walkthrough uses four different processes to recreate the effects of time on a typical colour print. These include fading, an overall colour shift, which is caused by the ageing of the paper itself, and the crumpling and creasing that occurs over the years. This last technique is tricky to simulate, but highly effective.

We're also adding the vignetting (corner shading) effect typical of the cheaper cameras of yesteryear. It's not an ageing property at all, but it enhances the aged effect, so we'll stretch the point.

The vignetting effect has to be applied right at the start because this is a basic camera property. The colour fading comes next since this applies to the dyes used in the print. The crumpled-paper effect can only be applied after the white border has been added. The colour tint is the final step, since this is a property of the paper itself.

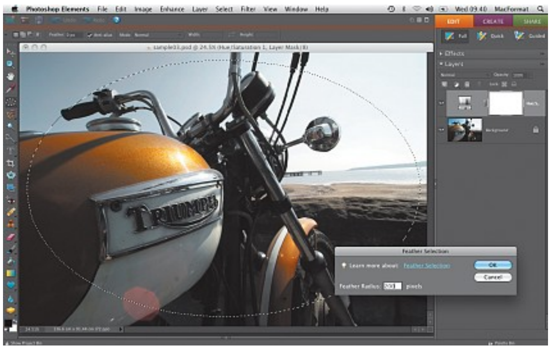
Rod Lawton



Hue: 0
Saturation: -100
Lightness: 0
195°/225° 255°\285°

01 Faded colours

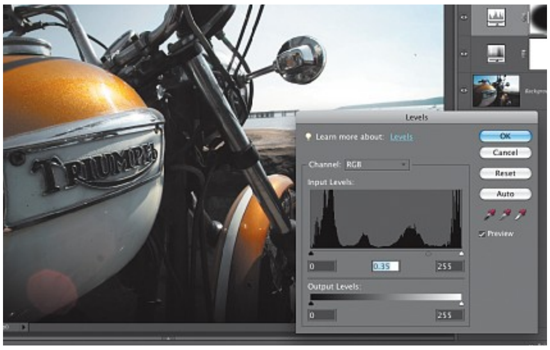
This technique is based on what actually happens to the dyes in the print. Various colour shifts can occur (we'll simulate this in a later step), but you'll find that different colours fade at different rates. Blue is often the first colour to suffer, and this can be simulated using a Hue/Saturation adjustment layer. First, select Blues from the Edit menu, then drag the Saturation slider to zero.



Feather Radius: 200 pixels

02 Vignetting selection

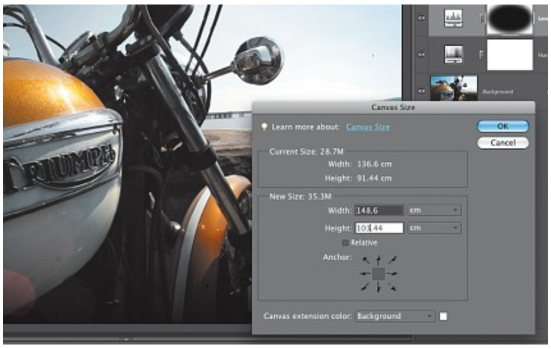
Next, we'll simulate a vignetting effect. First, create an elliptical selection just slightly smaller than the image itself. Then feather it (200 pixels is a good starting point). Finally, invert it (Select > Inverse) so the outer edges are selected. Now, create a **Levels** adjustment layer – the selection will be converted into a ready-made layer mask.



Channel: RGB
Input Levels: 0 0.35 255
Output Levels: 0 255

03 Vignette effect

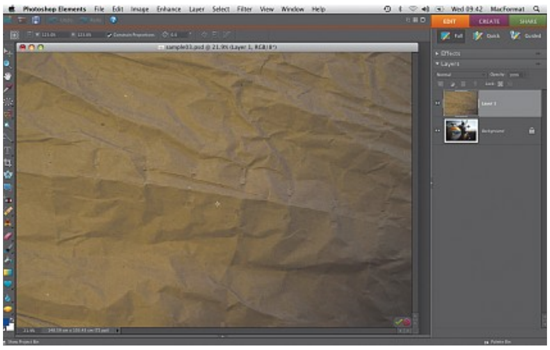
Now we can use the **Gray Point** slider in the **Levels** dialog to apply a darkening effect. The layer mask we've created means that this is only applied to the corners of the image. We can keep coming back to the **Levels** adjustments until they're just fine. Apply a **Gaussian Blur** to the mask or replace it altogether if it's not right.



Current Size: 28.7M
Width: 136.6 cm
Height: 91.44 cm
New Size: 35.3M
Width: 146.6 cm
Height: 101.44 cm
Canvas extension color: Background

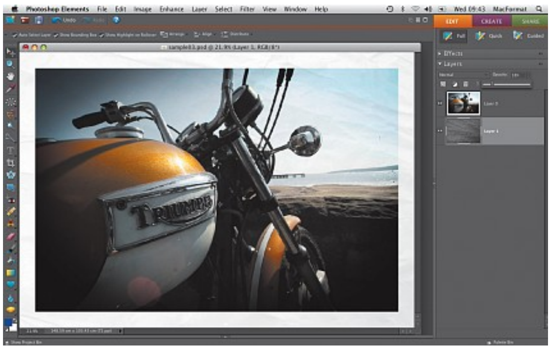
04 Add a border

Old photo-lab prints usually have a white border around the edge, and the simplest way to reproduce this takes just two steps. First, we need to make sure that the program's **Background Colour** is set to **white**. Second, we need to enlarge the canvas, typing in new **width** and **height** values. Increase them by the same amount.



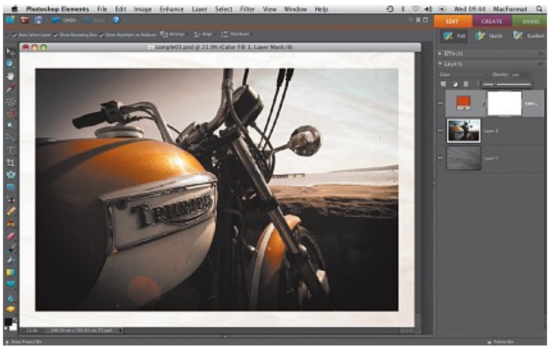
05 The 'paper' layer

Now we can flatten the layers in the image, ready for the next step, which is to add a photo of a sheet of paper. Just flatten out the paper and take a picture of it. Scale up the photo as necessary to match or exceed the size of the photo. It doesn't have to match exactly, just as long as it fills the area.



06 Overlay mode and Opacity

Now we need swap around the layers. The photo layer has to move above the paper layer (double-click it to promote it to a layer), then change the photo layer's **Blend Mode** to **Overlay** so that the paper texture shows through. We can then **Desaturate** the paper layer and reduce its **Opacity** to create a more subtle effect.



07 Adding a tint

We'll finish off by adding a colour shift, which can affect photographic paper as it ages. You could use the **Hue/Saturation** dialog and its **Colorize** option for this, but we've gone for a **Solid Colour** adjustment layer, using the **Color Picker** to choose a brown tone, changing the layer's **Blend Mode** to **Color** then adjusting **Opacity**. ●

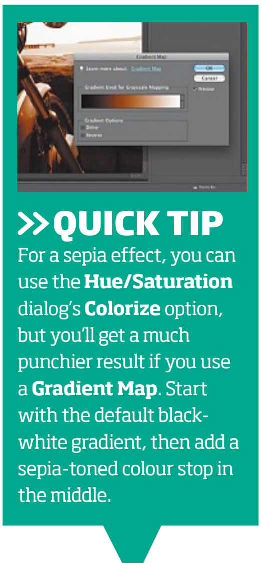
EXPERT TIP

Using the Displace filter

The 'paper' effect in the walkthrough works well enough, but you'd expect the image to be slightly distorted where the paper's creased. It's possible to simulate this effect, and we're indebted to Steve Caplin's book *How to Cheat in Photoshop* for the answer. It's done with a displacement map, which shifts the pixels in the image by a distance that depends on the map's tonal value.

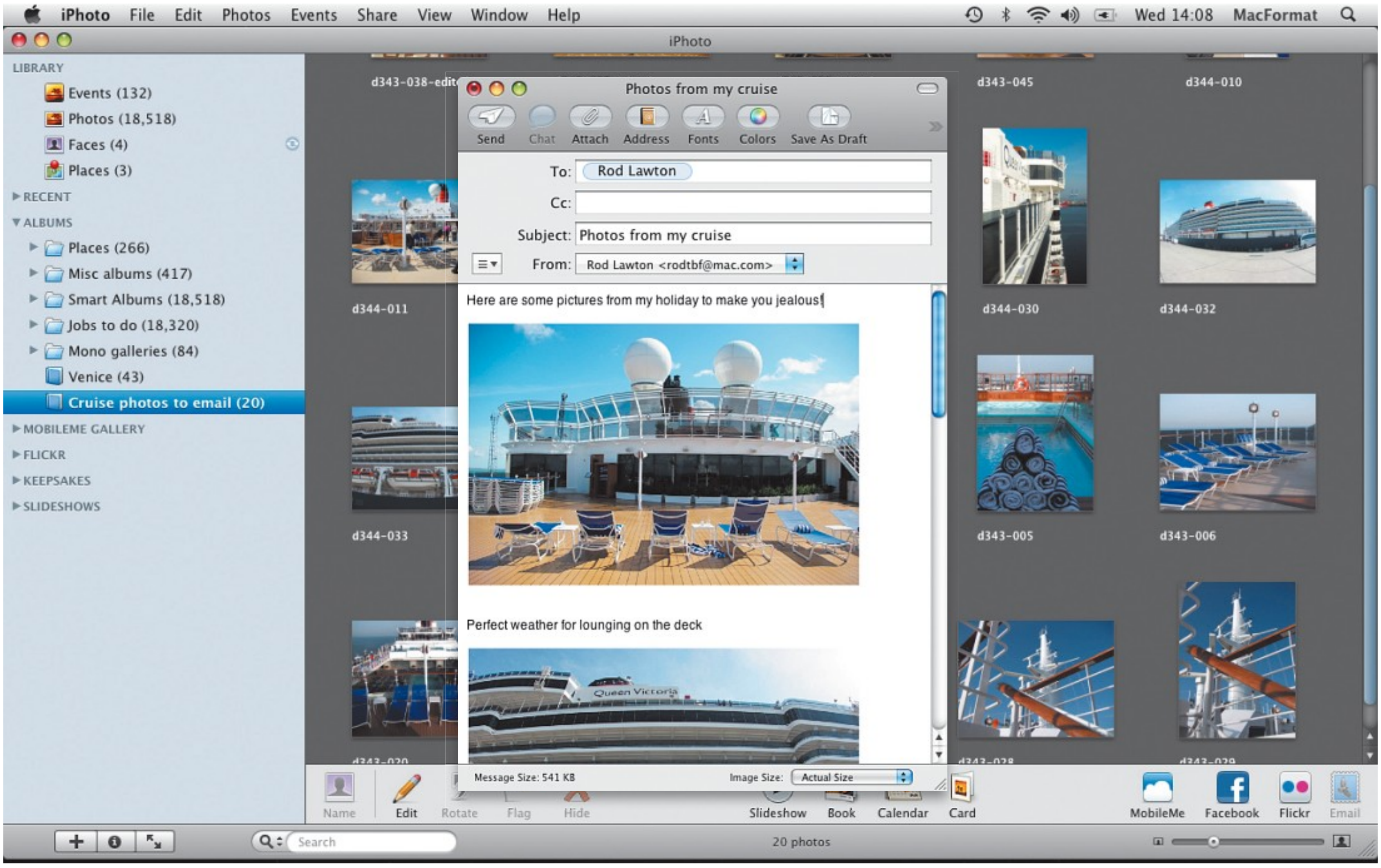
First, add the paper layer to your image, then hide the other layers and save this paper image as a *Photoshop* file. Now go back to your image, show the photo layer again and apply the **Displace** filter (Filter > Distort > Displace). You'll be prompted to choose displacement values (the default ones are fine) and to select your saved displacement map file after you've clicked **OK**.

Rod Lawton is a digital imaging specialist.



» QUICK TIP

For a sepia effect, you can use the **Hue/Saturation** dialog's **Colorize** option, but you'll get a much punchier result if you use a **Gradient Map**. Start with the default black-white gradient, then add a sepia-toned colour stop in the middle.


iPhoto File Edit Photos Events Share View Window Help
Wed 14:08 MacFormat
iPhoto
LIBRARY
Events (132)
Photos (18,518)
Faces (4)
Places (3)
RECENT
ALBUMS
Places (266)
Misc albums (417)
Smart Albums (18,518)
Jobs to do (18,320)
Mono galleries (84)
Venice (43)
Cruise photos to email (20)
MOBILEME GALLERY
FLICKR
KEEPSAKES
SLIDESHOWS
d343-038-edit
d343-045
d344-010
d344-011
d344-030
d344-032
d344-033
d343-005
d343-006
Send
Chat
Attach
Address
Fonts
Colors
Save As Draft
Name
Edit
Rotate
Flag
Hide
Slideshow
Book
Calendar
Card
MobileMe
Facebook
Flickr
Email
Search
20 photos
Queen Victoria

Photos from my cruise

To: Rod Lawton

Cc:

Subject: Photos from my cruise

From: Rod Lawton <rodtbf@mac.com>

Here are some pictures from my holiday to make you jealous!

Perfect weather for lounging on the deck

Message Size: 541 KB

Image Size: Actual Size

Email photos from iPhoto

iPhoto's tight integration with Apple Mail means emailing snaps is a cinch.

Sending your snaps to friends and family just got a whole lot easier

» KEY INFO

DIFFICULTY:
Beginner

TIME NEEDED:
15 minutes

WHAT YOU'LL NEED:
iPhoto (£65, part of iLife '09, **http://store.apple.com/uk**)

We often make things much more complicated than they need to be. Apple's MobileMe web galleries are great for sharing your favourite photos with other people, as is a Flickr account, and it's possible to upload photos to both from within *iPhoto*. But what if you only want certain people to be able to see your pictures rather than the world at large? That's quite likely if you're sharing your holiday snaps, for example, and it means you've then got to figure out how to restrict access to your web galleries.

Wouldn't it be simpler just to email your photos to the people you want to see them? It's really easy to do, and it saves all that messing around with albums, layouts and privacy settings. It's stone-age technology by today's standards, but that doesn't make it any less effective.

And *iPhoto* makes it so easy. In fact, the only work you've got to do is pick your email recipients and type a message to go with the pictures. *iPhoto* does everything else behind the scenes, resizing your photos and attaching them to the message.

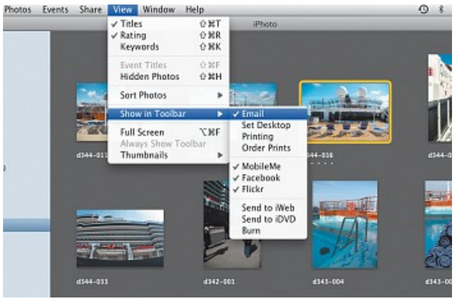
This resizing process is important, even though almost everyone these days has a fast broadband connection. Today's digital cameras produce 10-12-megapixel images of several megabytes each, and a good few of these attached to an email message would make for a slow transfer, even with broadband.

> *"Wouldn't it be simpler to email your photos to the people you want to see them? It's really easy to do"*

Besides, you don't necessarily want other people to have full-size versions of your photos. You might just want for them to be viewed on-screen. If you do want them to have a full-size version, though, the option is there in the *Mail* dialog (Step 3 in the walkthrough). *iPhoto*'s emailing options are quick, simple and effective, and if you've not used them before, now is as good a time as any to check them out.

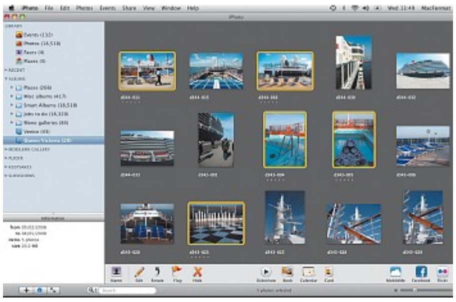
Rod Lawton

HOW TO / Select photos in iPhoto for direct emailing


Photos
Events
Share
View
Window
Help
iPhoto
✓ Titles
✓ Rating
Keywords
Event Titles
Hidden Photos
Sort Photos
Show in Toolbar
Full Screen
Always Show Toolbar
Thumbnails
✓ Email
Set Desktop
Printing
Order Prints
✓ MobileMe
✓ Facebook
✓ Flickr
Send to iWeb
Send to iDVD
Burn
d344-011
d344-016
d344-033
d342-001
d343-004

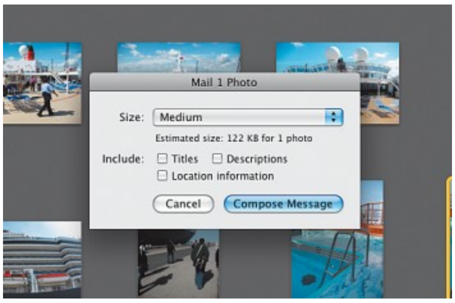
01 The Email button

You can send photos by email using the Share > Email menu command, but it's easier to select the photo(s) you want to send and click the **Email** button on the toolbar at the bottom. To configure toolbar buttons, open the **View** menu and the **Show in Toolbar** submenu.



02 Select your photo(s)

Next, select the photo or photos to email. To select multiple photos, click on the first image then ⌘-click on others you want to add. To select a block of photos, click the first and ⇧-click on the last, or draw a marquee over those you want to send. Hit the **Email** button.



Mail 1 Photo

Size: Medium

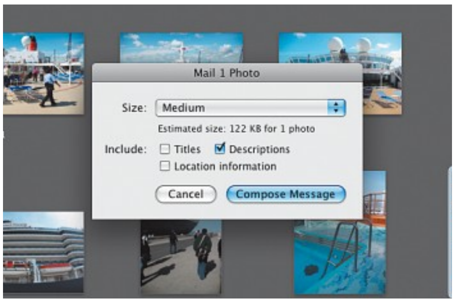
Estimated size: 122 KB for 1 photo

Include: ☐ Titles ☐ Descriptions ☐ Location information

Cancel
Compose Message

03 Choose size

iPhoto resizes photos before it sends them. Choose **Small**, **Medium**, **Large** or **Actual Size**. **Small** produces a picture big enough for on-screen viewing; **Medium** produces a larger on-screen image, while **Large** is good enough for small prints. **Actual Size** is what it says!



Mail 1 Photo

Size: Medium

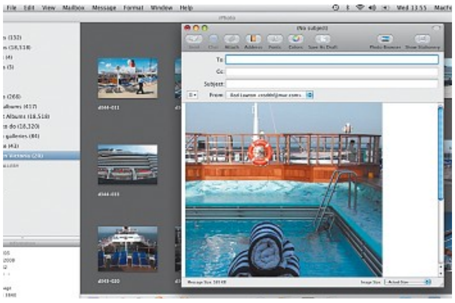
Estimated size: 122 KB for 1 photo

Include: ☐ Titles ☑ Descriptions ☐ Location information

Cancel
Compose Message

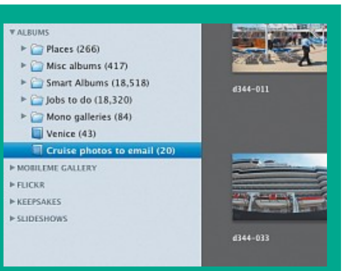
04 Add descriptions

iPhoto can also add descriptions below your photos. This is one of the checkbox options in Step 3. To add a description, select the photo, then click the **i** button) at the bottom of the **Source** panel and type your description in the space at the bottom.



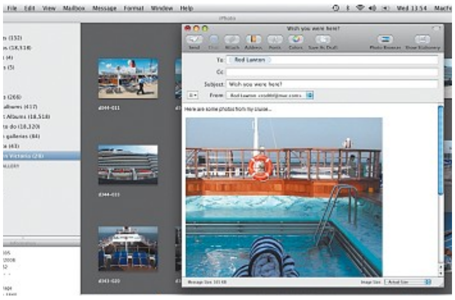
05 New message

When you've clicked the **Compose Message** button in the previous step, a **New Message** window opens in *Mail*, or whatever your default email program might be. The pictures you've chosen are inserted into the message body at the chosen size.


ALBUMS
Places (266)
Misc albums (417)
Smart Albums (18,518)
Jobs to do (18,320)
Mono galleries (84)
Venice (43)
Cruise photos to email (20)
MOBILEME GALLERY
FLICKR
KEEPSAKES
SLIDESHOWS
d344-011
d344-033

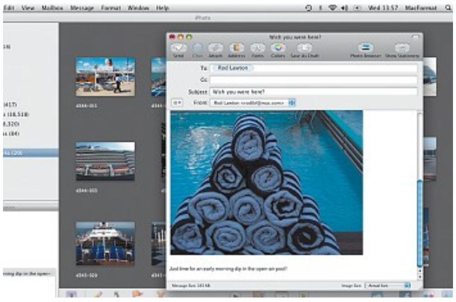
QUICK TIP

If you only want to send a couple of photos, select them manually. If you want to send several and spend a little time selecting the best ones, it's quicker to create an album. When you're ready, select all (⌘+A) and hit the **Email** button.


To: Rod Lawton
Subject: Wish you were here?

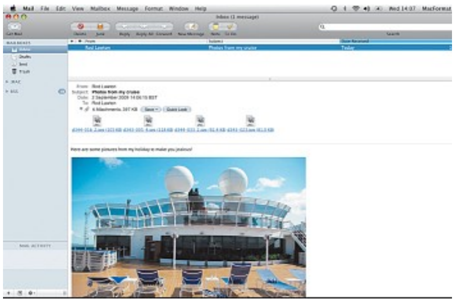
06 Message details

This includes the message recipient (in the To: field), a message **Subject**, and any other text you want to add to the message body. To add text, click to the left of an image to display the insertion point, then start typing and hit ↩ to move the picture to a new line below.


To: Rod Lawton
Subject: Wish you were here?

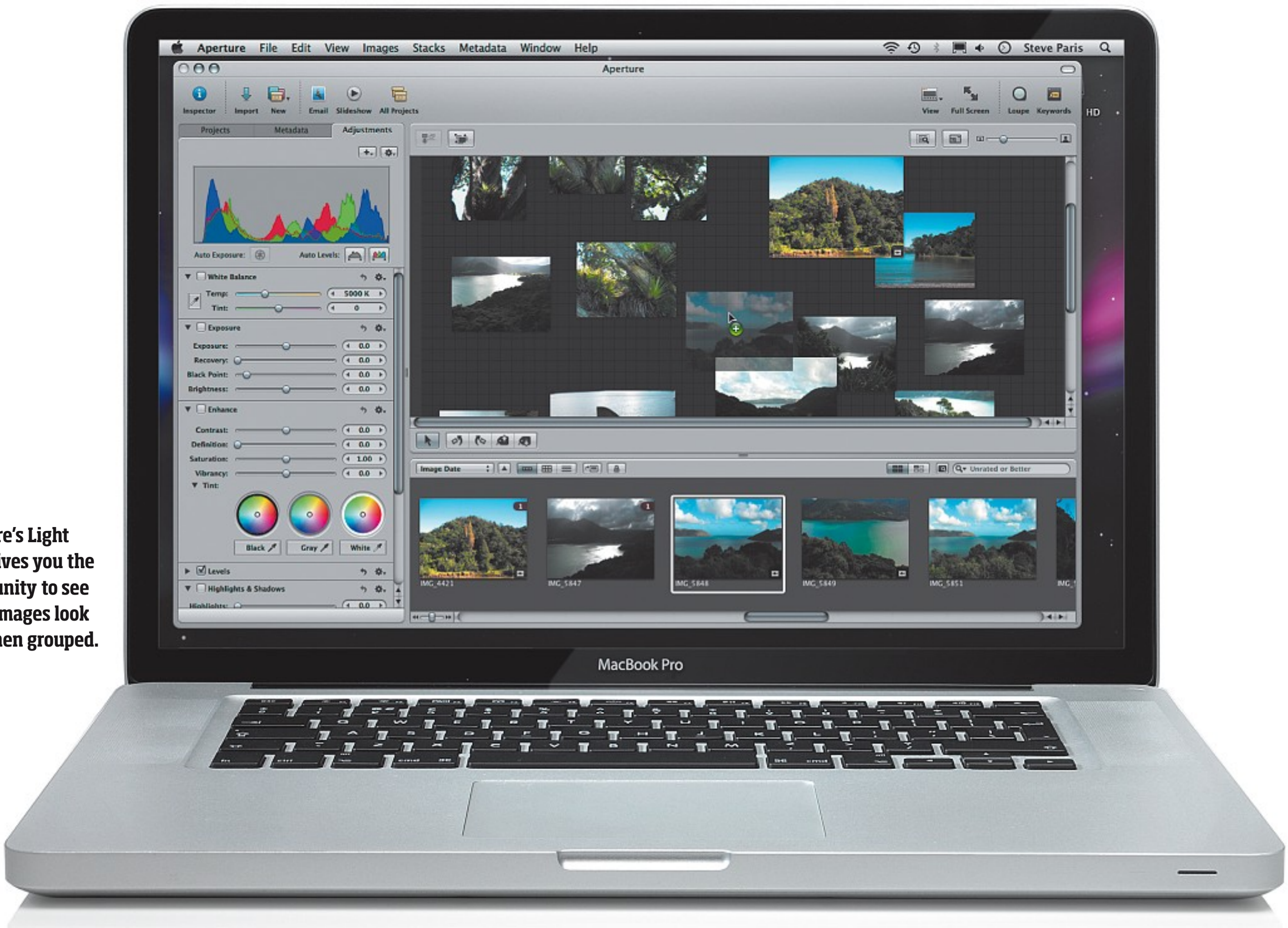
07 The finished message

Here's our message with text inserted before the picture and a description added afterwards. You can also add titles and location information. Titles are simply filenames and location information only applies if you've used the *iPhoto '09* geotagging/mapping tools.



08 What your recipients see

This is what the message looks like to the recipient. As long as the email program is configured to display HTML email (most are) they will see the images displayed within the text, but also available as attachments, which can be saved separately. ●


Aperture File Edit View Images Stacks Metadata Window Help
Steve Paris
Aperture
Inspector
Import
New
Email
Slideshow
All Projects
View
Full Screen
Loupe
Keywords
Projects
Metadata
Adjustments
Auto Exposure:
Auto Levels:
White Balance
Temp:
5000 K
Tint:
Exposure
Exposure:
Recovery:
Black Point:
Brightness:
Enhance
Contrast:
Definition:
Saturation:
Vibrancy:
Tint:
Black
Gray
White
Levels
Highlights & Shadows
Image Date
Unrated or Better
IMG_4421
IMG_5847
IMG_5848
IMG_5849
IMG_5851
MacBook Pro

Aperture's Light Table gives you the opportunity to see which images look best when grouped.

Use Aperture's Light Table

This is the best place to see which shots work great together

>> KEY INFO

DIFFICULTY:
Intermediate

TIME NEEDED:
30 minutes

WHAT YOU'LL NEED:
Apple Aperture 2.1.3 or better (£126, **http://store.apple.com/uk**), photos imported and catalogued in Projects, a basic understanding of the interface

There are many tools in *Aperture* that differentiate it from its smaller sibling, *iPhoto*. You can perform much more powerful adjustments and even add plug-ins from other manufacturers. You also have more flexibility when organising your work, such as storing everything related to one project inside a single folder and sorting photos into stacks (as we explored last issue).

Another feature unique to *Aperture* is the **Light Table**. It was inspired by the real-life object used by professional photographers to help them compare pictures and choose the ones that work best together. *Aperture*'s digital version behaves in a very similar way to the real thing, but because it is virtual this affords it many advantages.

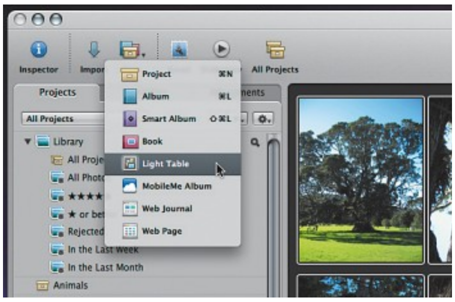
For instance, there's no limit to the size of your table and you can resize individual shots to enable you to experiment with images of different dimensions. But that's not all: because the **Light Table** is completely integrated with the rest of *Aperture*, you can also rate your pictures, add keywords to them and even adjust them on the fly using the many tools available to you. There is a limit to the latter though: the **Straighten**, **Crop**, **Spot & Patch**, **Retouch** and **Red Eye** tools cannot be used while you're working in the **Light Table**. Fortunately, however, there is a workaround, which we'll look at in this tutorial.

> *"There's no limit to the size of a Light Table and you can resize shots to experiment with dimensions"*

We'll show you how the **Light Table** can be used as part of your workflow to help you select the right photos for a book you're creating, for instance. You'll also learn how to print a complete **Light Table** so that you have something tangible to take with you when you're working away from your Mac. Let's start by launching *Aperture* and selecting one of your projects.

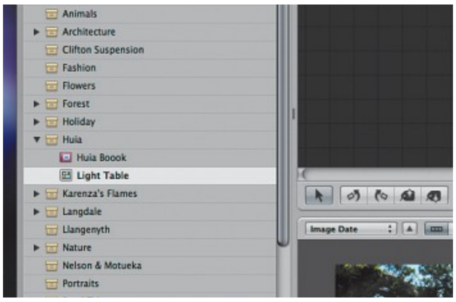
Steve Paris

HOW TO / Make the most of the Light Table


Inspector
Import
All Projects
Projects
All Projects
Library
Project ⌘N
Album ⌘L
Smart Album ⇧⌘L
Book
Light Table
MobileMe Album
Web Journal
Web Page
In the Last Week
In the Last Month
Animals

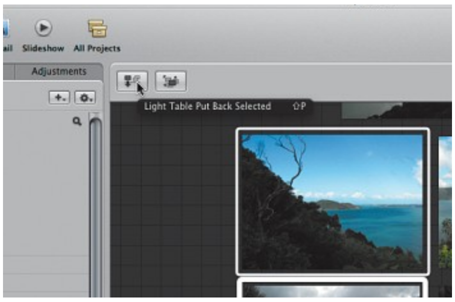
01 Creating a Table

Select some pictures, click on the toolbar's **New** icon and choose **Light Table** (if you only highlight one shot, you'll be asked if you want to add more). You're not restricted to choosing photos from a project: you can select them from an album, web gallery or book.


Animals
Architecture
Clifton Suspension
Fashion
Flowers
Forest
Holiday
Huia
Huia Boook
Light Table
Karenza's Flames
Langdale
Llangenyth
Nature
Nelson & Motueka
Portraits
Image Date

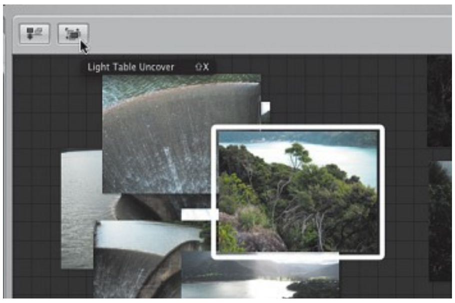
02 Adding shots

Once created, the **Light Table** lies empty and all your chosen pictures are found in the browser section underneath it. To add a shot, just drag it in. As you add a photo and move it around, alignment guides help you place it. The slider at the top-right lets you zoom in and out.


Slideshow
All Projects
Adjustments
Light Table Put Back Selected ⇧P

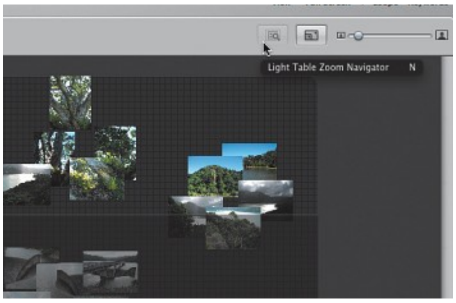
03 Putting them back

To remove a picture, you can select it and hit the ⌫ key, but this also removes it from the **Browser**. There is another way: select a shot and click on the button at the top-left of the **Light Table**, called **Put Back Selected**. You can also use the ⇧+P keyboard shortcut.


Light Table Uncover ⇧X

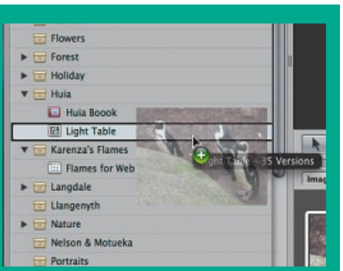
04 Uncovering stacks

You can place pictures over one another if you need to. Instead of dragging them one at a time to reveal them, select one and click on the **Uncover** button, or use the ⇧+X shortcut. Pressing that button again will put the shots back in their original overlapping order.


Light Table Zoom Navigator N

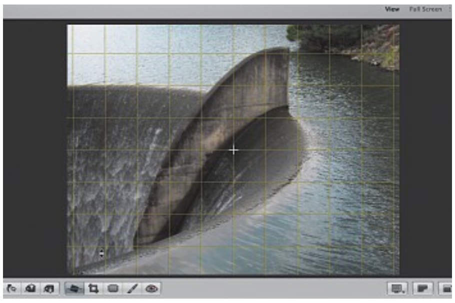
05 Navigating a large Table

To extend a **Light Table**, drag a photo to its edge. When it's really big, you can use the **Zoom Navigator** (at the top-right) to move to another area quickly. To its right is **Scale to Fit** that resizes the view to see all your shots, no matter where they are on the **Light Table**.


Flowers
Forest
Holiday
Huia
Huia Boook
Light Table
Karenza's Flames
Flames for Web
Langdale
Llangenyth
Nature
Nelson & Motueka
Portraits
35 Versions

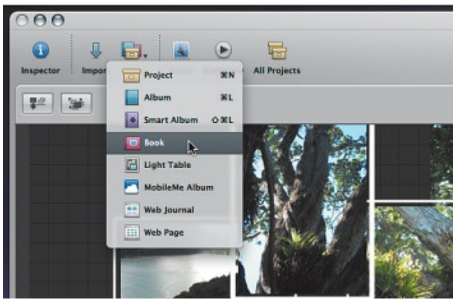
QUICK TIP

Despite the fact that you need to select a single project, album, book or web gallery to start creating a **Light Table**, you aren't limited to the photos contained within it: you can add more shots to the **Sidebar** from any number of projects.


View
Full Screen

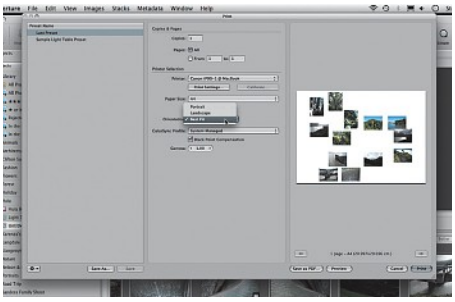
06 Hidden adjustments

You can use the **Loupe** tool or even alter your shots using the **Adjustments** tab (ctrl+A), but some tools aren't available. To access them, select an image and click **Show Viewer for this Browser** at the top-left. Click the same button to return to the **Light Table**.


Inspector
Import
All Projects
Project ⌘N
Album ⌘L
Smart Album ⇧⌘L
Book
Light Table
MobileMe Album
Web Journal
Web Page

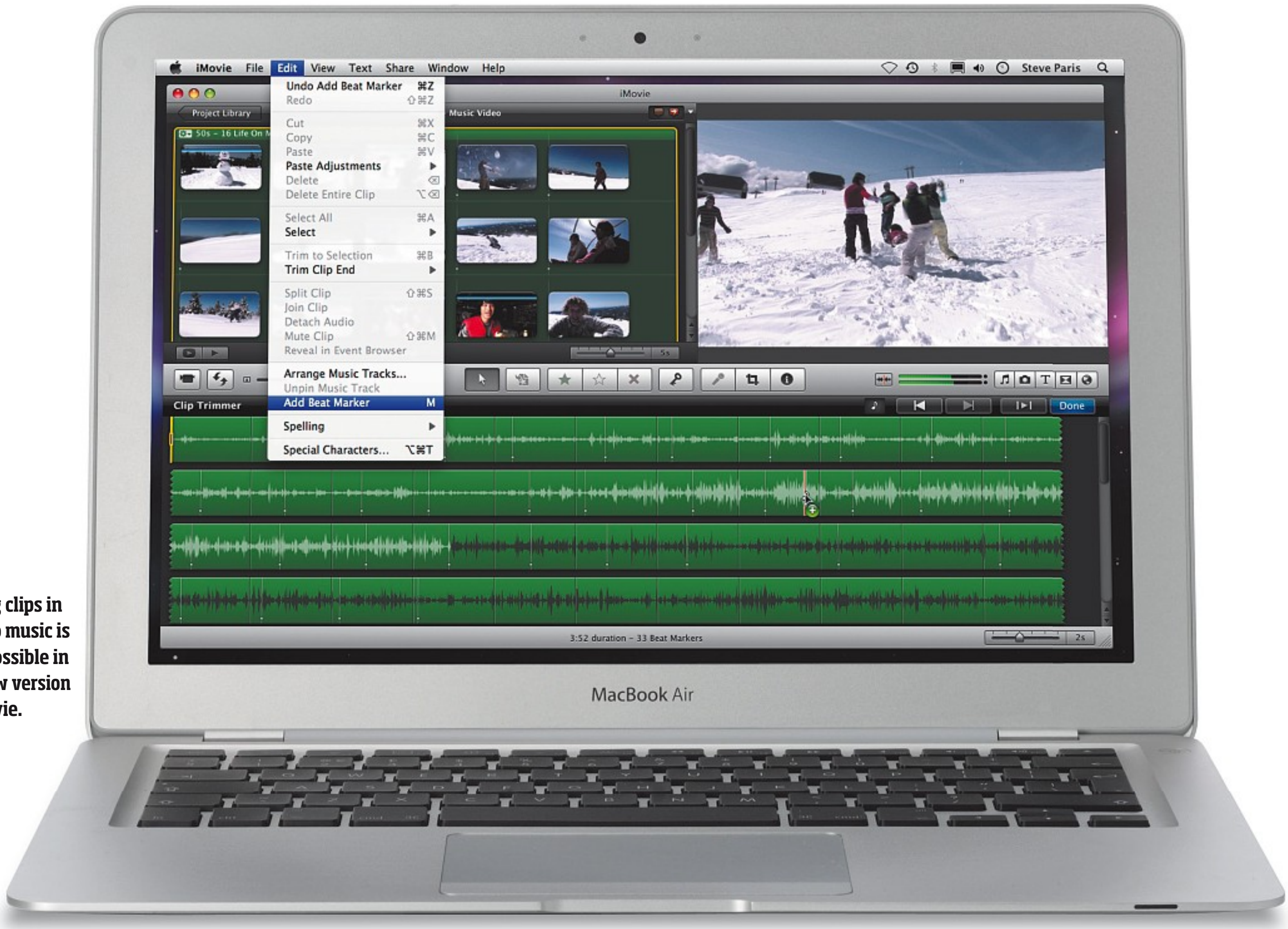
07 Table selection

When you've found all the pictures you'd like to use for a new book or web gallery, select them from the **Light Table** and choose the appropriate command from File > New From Selection. You can also use the toolbar's **New** icon to perform the same action.



08 Printing a Table

To print part of your **Light Table**, select the shots you wish to include and select File > Print Light Table. The output will preserve the shots' position in relation to one another (if no photos are selected, *Aperture* will print the entire light table). ●


iMovie
File
Edit
View
Text
Share
Window
Help
Steve Paris
Undo Add Beat Marker ⌘Z
Redo ⇧⌘Z
Cut ⌘X
Copy ⌘C
Paste ⌘V
Paste Adjustments
Delete
Delete Entire Clip
Select All ⌘A
Select
Trim to Selection ⌘B
Trim Clip End
Split Clip ⇧⌘S
Join Clip
Detach Audio
Mute Clip ⇧⌘M
Reveal in Event Browser
Arrange Music Tracks...
Unpin Music Track
Add Beat Marker M
Spelling
Special Characters... ⌥⌘T
Project Library
Music Video
Clip Trimmer
Done
3:52 duration – 33 Beat Markers
MacBook Air

Editing clips in time to music is now possible in the new version of iMovie.

Edit movies in time to a song

Editing to the beat is easy, thanks to a little-advertised feature

>> KEY INFO

DIFFICULTY: Intermediate

TIME NEEDED: 25 minutes

WHAT YOU'LL NEED: Apple iMovie '09 version 8.0.4 or later (£69, **http://store.apple.com/uk**), clips in one or more Events, music in your iTunes library or GarageBand

As you've seen from the previous tutorials we've produced, editing home movies can be achieved in minutes thanks to *iMovie '09*. The latest version even enables more advanced users to perform complicated edits thanks to new tools such as the Precision Editor. But there's one thing that still appears to elude the *iMovie* editor: being able to easily edit clips in time to the music. For this, you need a precise area to work in, with time displayed as exactly as possible. Representing clips with thumbnails every few seconds isn't exactly suited to this.

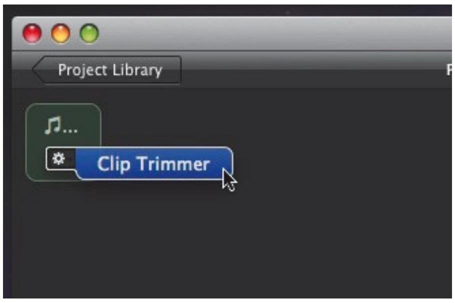
However, you'll be pleased to learn that this action's not only possible but also very easy to achieve: Apple's engineers obviously realised that this is an important aspect of home-movie editing and designed a very elegant way of editing to the beat. Strangely, the marketing department didn't pick up on it.

This feature is on by default: click on the View menu and you'll notice that the Snap to Beats command is already ticked (you can also toggle it on and off by using the ⌘+U keyboard shortcut). But where does the feature lie? Like many other *iMovie* features deemed more advanced than basic drag-and-drop editing, it's hidden from view unless you know where to look. We'll be showing you how to turn any new project into one that can let you sync to a song (as you might imagine, you can't turn an already edited project into one that syncs to music: you need to start from scratch).

> *"The latest version enables advanced users to perform complicated edits thanks to new tools"*

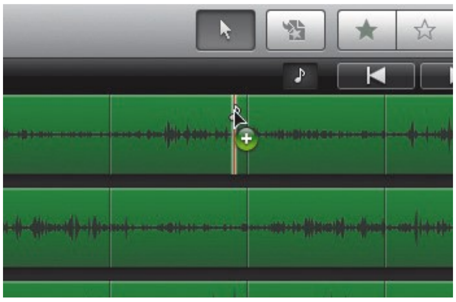
We'll be looking at the various ways to add music markers to a track, how these markers can be altered, and how this process can affect the clips you've added to your project. So create a new project (by either going to File > New Project or using the ⌘+N shortcut) and let's get started.
Steve Paris

HOW TO / Devise a video that syncs to the beat


Project Library
Clip Trimmer

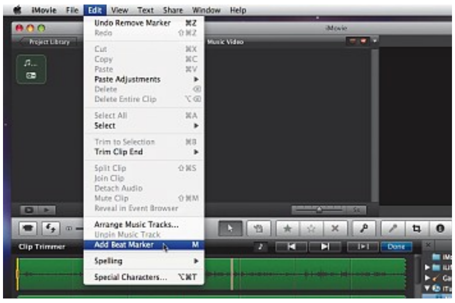
01 Choose a song

Go to Window > Music and Sound Effects to reveal the browser. Add a song from *iTunes* or one of your own tracks from *GarageBand*. You're presented with a small green square at the start and nothing else. Click its cog wheel and choose **Clip Trimmer**.



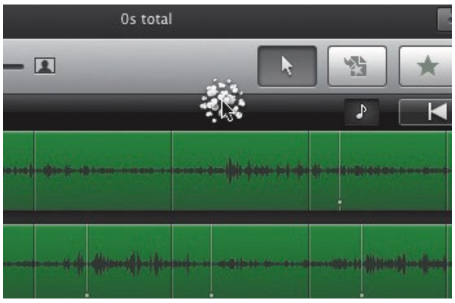
02 Marker icon

The interface's bottom section is replaced by the audio track, along with its waveform. Look to the top-right of that section to find a button bearing a musical note. Drag it onto your track to set a marker, skimming through your song as you do this.


iMovie File Edit View Text Share Window Help
Undo Remove Marker ⌘Z
Redo ⇧⌘Z
Cut ⌘X
Copy ⌘C
Paste ⌘V
Paste Adjustments
Delete
Delete Entire Clip
Select All ⌘A
Select
Trim to Selection ⌘B
Trim Clip End
Split Clip ⇧⌘S
Join Clip
Detach Audio
Mute Clip ⇧⌘M
Reveal in Event Browser
Arrange Music Tracks...
Unpin Music Track
Add Beat Marker M
Spelling
Special Characters... ⌥⌘T
Project Library
Music Video
Clip Trimmer

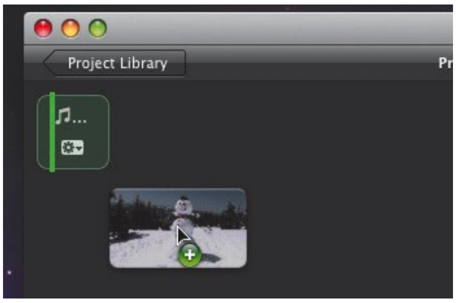
03 Keyboard shortcut

You can move the playhead to the proper position and hit the M key to set a marker (or use the Edit > Add Beat Marker menu). But the most efficient way of doing this is to hit [Space] to play the music. As you hear the beat, hit the M key. Repeat as desired.



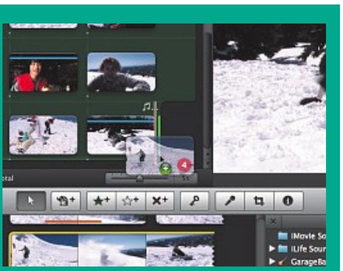
04 Changing positions

Each marker is represented by a thin white line with a small white dot at its bottom. You can fine-tune your markers by dragging them to a new location. To delete one, simply drag it out of the section. Once you've finished, click **Done** or hit [Enter] to exit the **Clip Trimmer**.


Project Library

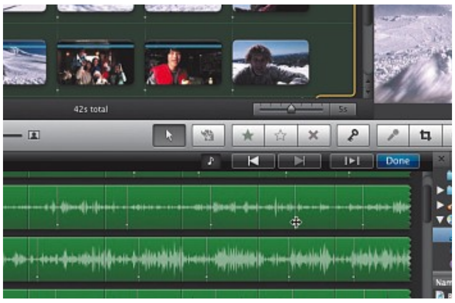
05 Adding video

It's time to build your edit. Select a clip from an **Event**. Usually, you'd set its length there prior to dragging it onto the project. However, as you release the mouse onto your project, the clip will be automatically trimmed once it reaches the first audio marker.



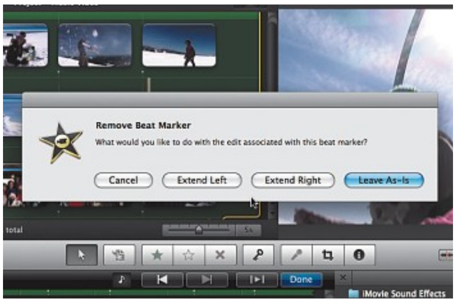
QUICK TIP

You can select as many clips as you want from an **Event** (click the first and ⌘+click on the others). However, they'll appear in the same order as they're displayed in the **Event** and you won't be able to pick which part of the clip to start with.


42s total
Done

06 Fine-tuning markers

Choose other clips and drag them onto your project. You can alter your markers' positions at any time: select **Clip Trimmer** from the audio track's cog wheel menu and drag the markers around. Any clip already present will be stretched or contracted to fit the new time.



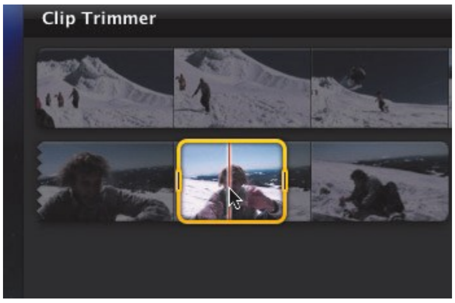
Remove Beat Marker

What would you like to do with the edit associated with this beat marker?

Cancel
Extend Left
Extend Right
Leave As-Is
total
Done
iMovie Sound Effects

07 Marker deletion

Delete one of your first markers to reveal a warning window. *iMovie* needs to know what to do with the current edit: leave it untouched (**Leave As-Is**), delete the second clip and make the first one finish later (**Extend Right**) or start earlier (**Extend Left**).


Clip Trimmer

08 Altering the video

If you're not happy with when a chosen clip starts or ends, click its **cog wheel** and choose **Clip Trimmer**. You're presented with all the media that your clip came from. Drag the yellow selection to another location to change what's displayed in your project. ●

Master iTunes 9

Discover the new features and changes in Apple's media player

>> KEY INFO

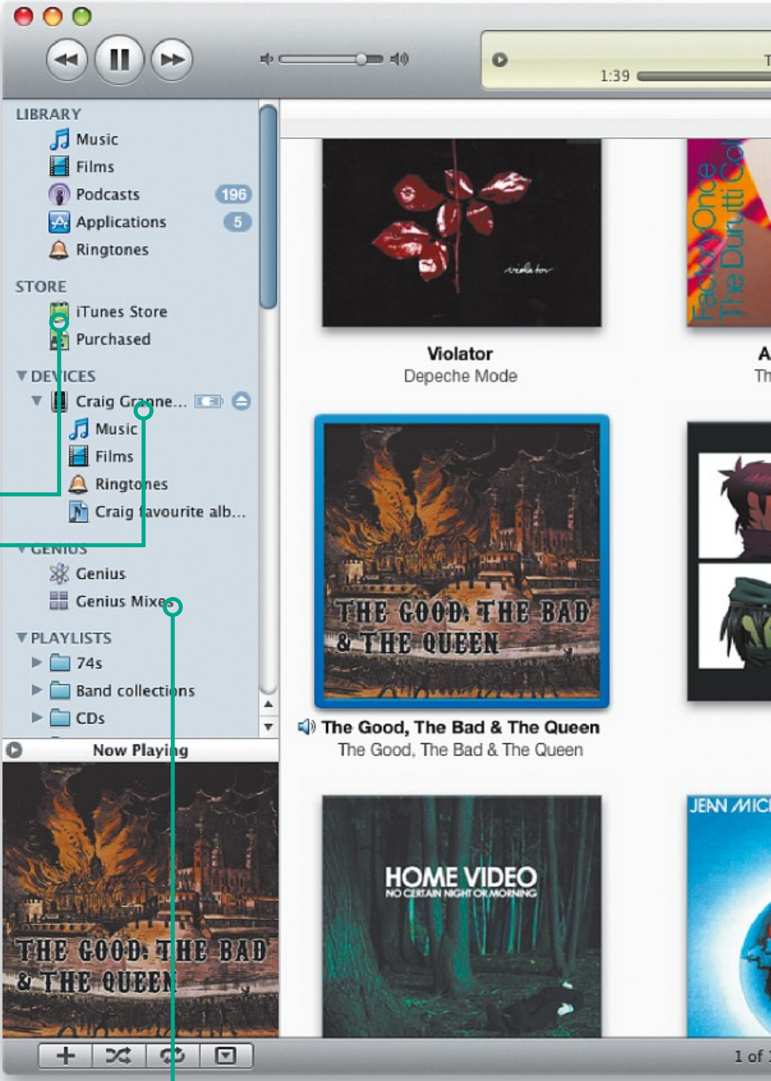
DIFFICULTY:
Beginner

TIME NEEDED:
15 minutes

WHAT YOU'LL NEED:
iTunes 9, Mac OS X 10.4.11 or later, QuickTime 7.6 or later

Following Apple's recent upgrades to the iPod touch and nano ranges, *iTunes* also got a welcome update. *Version* 9, rather like Snow Leopard, has few major new features, but a raft of refinements. Some of these are strangely hidden, but most improve workflow and usability. Within this guide, we show you the top new features, enabling you to get the best out of Apple's media player. And as with all previous versions of the application, *iTunes 9* is free. It's available for the Mac and PC from **www.apple.com/uk/itunes/** or for Mac via *Software Update*.

Craig Grannell

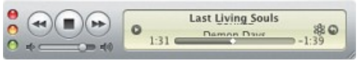

LIBRARY
Music
Films
Podcasts 196
Applications 5
Ringtones
STORE
iTunes Store
Purchased
DEVICES
Craig Granne...
Music
Films
Ringtones
Craig favourite alb...
GENIUS
Genius
Genius Mixes
PLAYLISTS
74s
Band collections
CDs
Now Playing
1:39
Violator
Depeche Mode
The Good, The Bad & The Queen
The Good, The Bad & The Queen
1 of

iTunes Store redesign

The iTunes Store has had a major facelift. Its layout is lighter and fresher, providing quicker access to content. Usability is improved by the new menu bar across the top of the store, and item **buy** buttons enabling you to build a wishlist and share finds with friends on Facebook and Twitter. iTunes now offers LPs, which combine lyrics, liner notes, imagery, video and audio files.

Device management

Syncing with mobile devices has improved in *iTunes 9*. It is now done via a multi-column/box approach (in this case providing sync options for playlists, artists and genres). You can also fill up free space with songs. And for app users, manage your device's homescreens in *iTunes* – see page 56 for a tutorial on this great new feature.

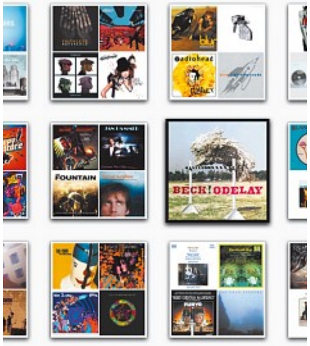

Last Living Souls
Demon Days
1:31
-1:39

Mini Player controls

Initially, to access the *iTunes 9* mini player, you ⌥-clicked the zoom button or used View > Switch to Mini Player. However, the latest *iTunes 9.0.1* reverts to the old behaviour (click for mini player, or ⌥-click for state switches).

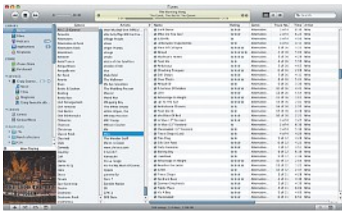
Automatic import

Automatically Add to iTunes is found in **~/Music/ iTunes/iTunes Music/**. Files dropped within are moved to their proper place in *iTunes*, and you don't have to manually delete the original files. You can also drag this folder to the Dock. Files *iTunes* can't process are placed within a **Not Added** folder.



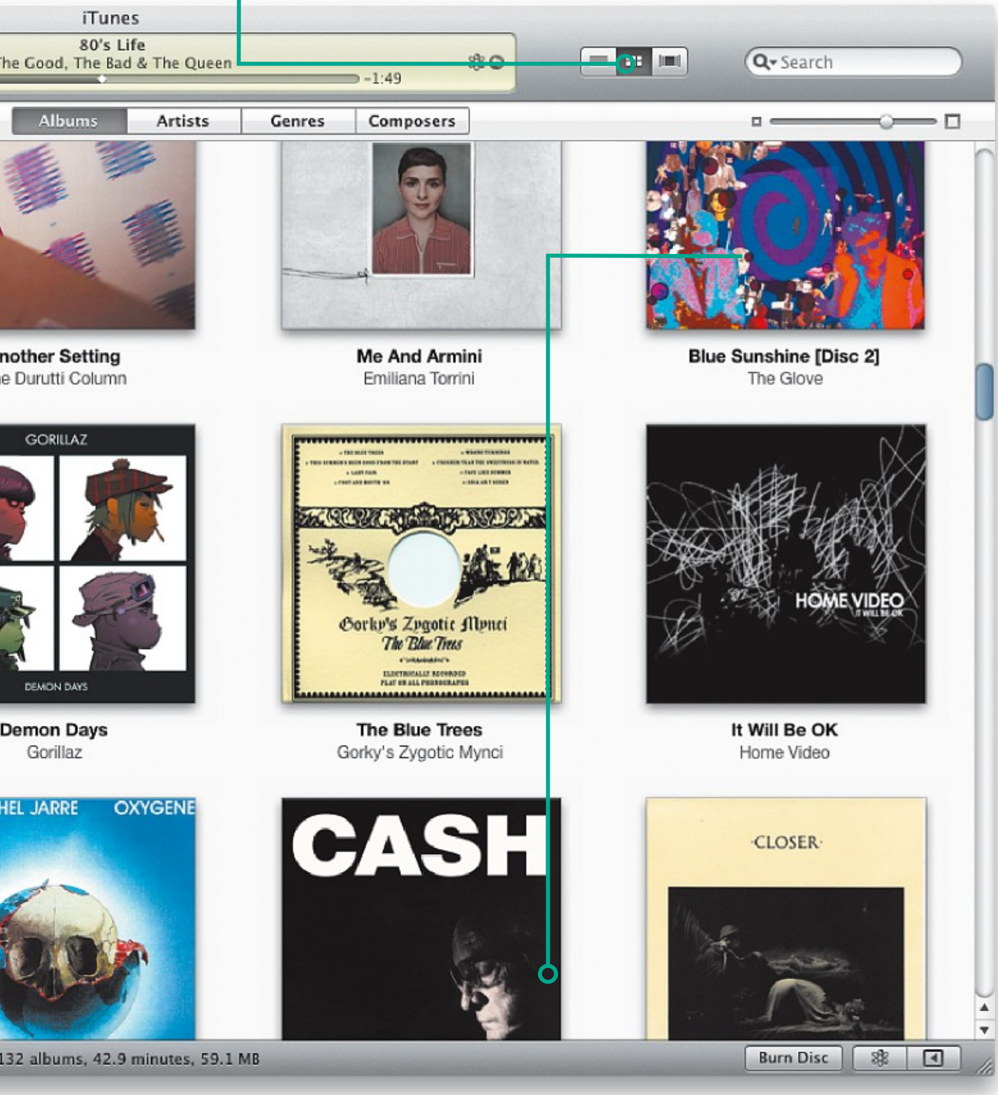
Genius Mixes

iTunes 9 now offers **Genius Mixes**, accessed via the sidebar. The mixes group similar tracks, and while you can't see or edit the mixes (and some of the choices are odd), the feature is like having a bunch of genre-specific radio stations based on your music collection, at your beck and call.



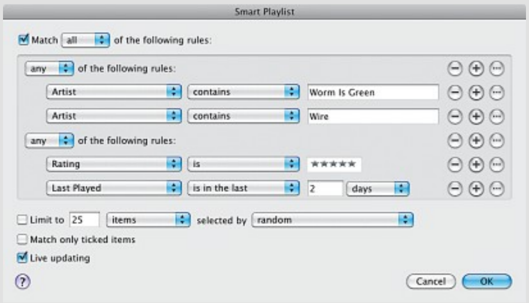
Revised view options

By default, the **List view** now has a column browser, enabling you to filter your collection across several columns. If you prefer the old setup, go to View > Column Browser > On Top. **Grid view** also offers a change, removing the header with the icon sizer. Bring this back via View > Grid View > Show Header.


iTunes
80's Life
he Good, The Bad & The Queen
-1:49
Search
Albums
Artists
Genres
Composers
nother Setting
e Durutti Column
Me And Armini
Emiliana Torrini
Blue Sunshine [Disc 2]
The Glove
Demon Days
Gorillaz
The Blue Trees
Gorky's Zygotic Mynci
It Will Be OK
Home Video
132 albums, 42.9 minutes, 59.1 MB
Burn Disc

Smarter Smart Playlists

Previously, **Smart Playlists** only enabled results to match 'all' or 'any' of the defined rules. Now, an ellipses button has been added to the **Smart Playlist** dialog, enabling you to nest conditions and create more complex playlists.


Smart Playlist

☑ Match all of the following rules:

any of the following rules:

Artist contains Worm Is Green

Artist contains Wire

any of the following rules:

Rating is ★★★★★

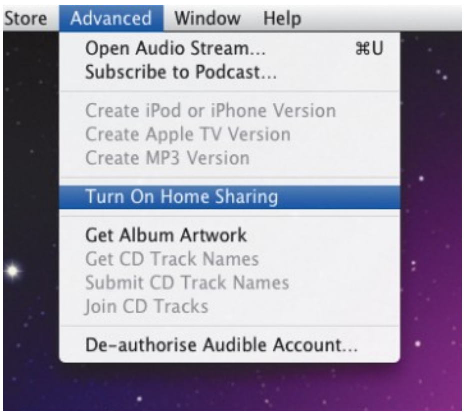
Last Played is in the last 2 days

☐ Limit to 25 items selected by random

☐ Match only ticked items

☑ Live updating

Cancel
OK


Store
Advanced
Window
Help
Open Audio Stream... ⌘U
Subscribe to Podcast...
Create iPod or iPhone Version
Create Apple TV Version
Create MP3 Version
Turn On Home Sharing
Get Album Artwork
Get CD Track Names
Submit CD Track Names
Join CD Tracks
De-authorise Audible Account...

Home Sharing

Home Sharing enables you to share your library with five computers on your local network and copy files and purchases between them. Select the **Home Sharing** sidebar item, type an account name/password, and then go from there. Note that you can't share across accounts. Page 54 has a full tutorial.

Organise library options

The structure of media files within **~/Music/iTunes** is a mess. In *iTunes 9*, go to File > Library > Organise Library and you can upgrade to **iTunes Media organisation**. This creates subfolders for music, films, TV shows, ringtones and podcasts.

KEYBOARD SHORTCUTS

File menu shortcuts

⌘ + N	New Playlist
⇧ + ⌘ + N	New Playlist from Selection
⌥ + ⌘ + N	New Smart Playlist...

View menu shortcuts

⌥ + ⌘ + 3	View as List
⌥ + ⌘ + 4	View as Grid
⌥ + ⌘ + 5	View as Cover Flow
⌘ + J	View Options
⌘ + B	Show/Hide Column Browser
⌘ + G	Show/Hide Artwork Column
⌘ + L	Go to Current Song
⇧ + ⌘ + 4	Switch to/from Mini Player

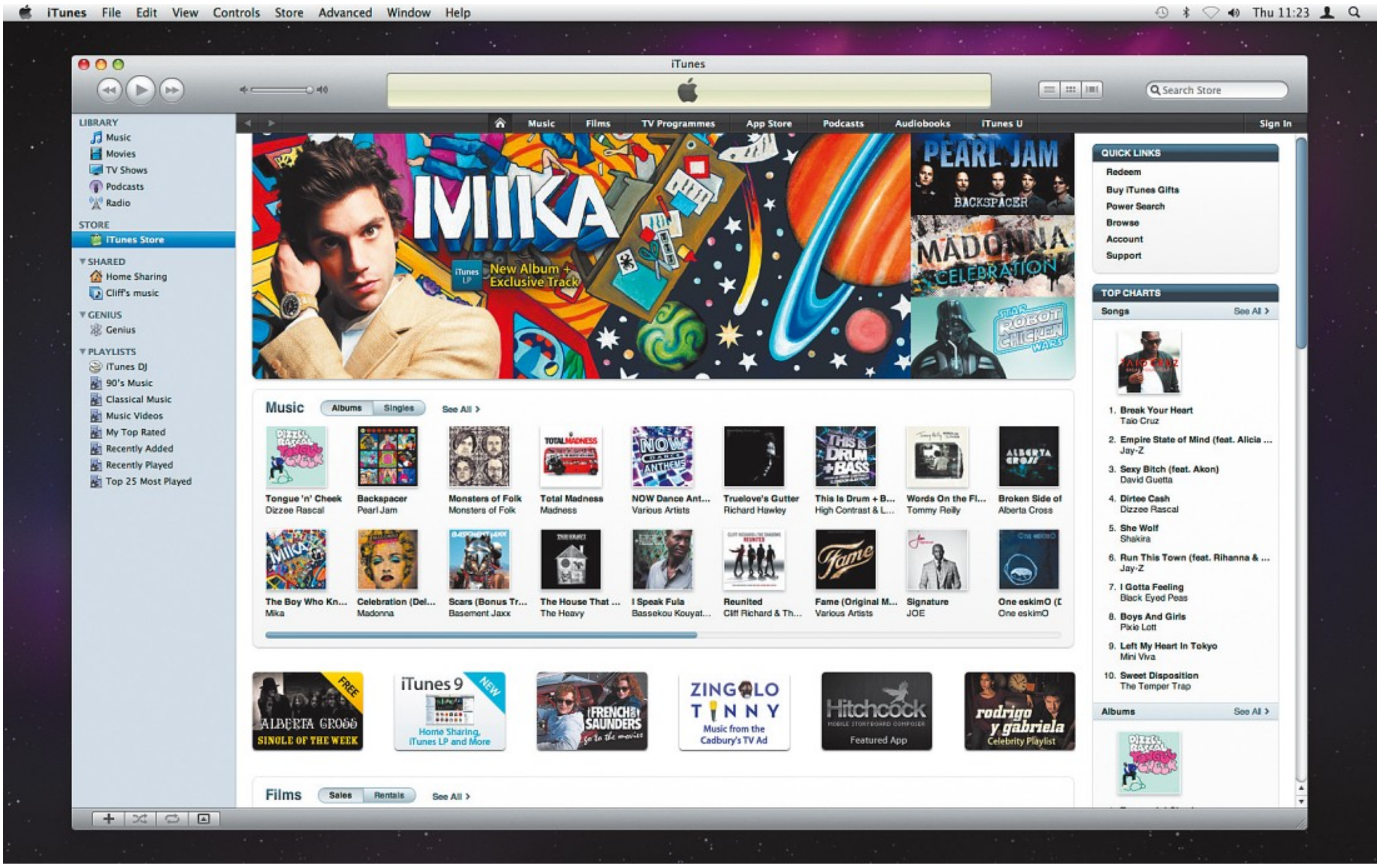
Store menu shortcuts

⌘ + [	Back
⌘ +]	Forward
⇧ + ⌘ + H	Home

Window menu shortcuts

⌥ + ⌘ + 1	iTunes
⌥ + ⌘ + 2	Equaliser

With iTunes 9 you can copy your digital purchases to all the Macs in your home.


iTunes File Edit View Controls Store Advanced Window Help
Thu 11:23
iTunes
Search Store
LIBRARY
Music
Movies
TV Shows
Podcasts
Radio
STORE
iTunes Store
SHARED
Home Sharing
Cliff's music
GENIUS
Genius
PLAYLISTS
iTunes DJ
90's Music
Classical Music
Music Videos
My Top Rated
Recently Added
Recently Played
Top 25 Most Played
Music Films TV Programmes App Store Podcasts Audiobooks iTunes U
Sign In
MIKA
New Album + Exclusive Track
PEARL JAM
BACKSPACER
MADONNA
CELEBRATION
ROBOT CHICKEN STAR WARS
QUICK LINKS
Redeem
Buy iTunes Gifts
Power Search
Browse
Account
Support
TOP CHARTS
Songs
See All
1. Break Your Heart Taio Cruz
2. Empire State of Mind (feat. Alicia ... Jay-Z
3. Sexy Bitch (feat. Akon) David Guetta
4. Dirtee Cash Dizzee Rascal
5. She Wolf Shakira
6. Run This Town (feat. Rihanna & ... Jay-Z
7. I Gotta Feeling Black Eyed Peas
8. Boys And Girls Pixie Lott
9. Left My Heart In Tokyo Mini Viva
10. Sweet Disposition The Temper Trap
Albums
See All
Music
Albums
Singles
See All
Tongue 'n' Cheek Dizzee Rascal
Backspacer Pearl Jam
Monsters of Folk Monsters of Folk
Total Madness Madness
NOW Dance Ant... Various Artists
Truelove's Gutter Richard Hawley
This Is Drum + B... High Contrast & L...
Words On the Fl... Tommy Reilly
Broken Side of Alberta Cross
The Boy Who Kn... Mika
Celebration (Del... Madonna
Scars (Bonus Tr... Basement Jaxx
The House That ... The Heavy
I Speak Fula Bassekou Kouyat...
Reunited Cliff Richard & Th...
Fame (Original M... Various Artists
Signature JOE
One eskimO (E One eskimO
FREE
ALBERTA CROSS
SINGLE OF THE WEEK
iTunes 9
NEW
Home Sharing, iTunes LP and More
FRENCH & SAUNDERS
ZINGOLO TINNY
Music from the Cadbury's TV Ad
Hitchcock
Featured App
rodrigo y gabriela
Celebrity Playlist
Films
Sales
Rentals
See All

Use Home Sharing in iTunes 9

Share content and sync music, movies and apps to multiple devices

>> KEY INFO

DIFFICULTY:
Beginner

TIME NEEDED:
10 minutes

WHAT YOU'LL NEED:
Two or more computers running iTunes, an iTunes Store account, a network and internet connection

Through maturation, *iTunes* has become the hub for all things digital and entertainment related, both on Macs and PCs. Now, as well as buying music, you can rent and buy movies through it and manage your iPhone or iPod touch and their many applications. One area in which *iTunes* has perhaps not been quite as flexible as it could be is in the sharing of content. One workaround is to use Library Sharing, which lets you share and browse *iTunes* libraries on a local network, though only for streaming.

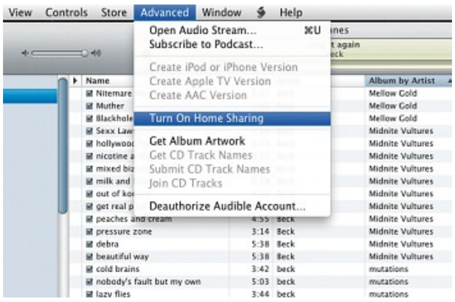
Now, *iTunes 9* introduces Home Sharing, which lets you authorise up to five Macs or PCs running *iTunes* on your local network. It also enables you to stream music and video, and drag and drop content between them. If you consider that an iPod or iPhone needs to be synced with a single Mac, you'll see the benefit of Home Sharing. If you rip a CD on one Mac, someone else in the house can play it on their Mac and also now drag the files to their Mac and sync the tracks to their iPod or iPhone. Previously, this involved locating files in the *Finder* and copying them manually. Now, it's all done from within *iTunes*. The same applies to apps and videos, so you can rip or buy content on one Mac then sync it to different devices by copying it easily between computers. The catch is that you have to use the same *iTunes* account details to authorise each machine, but you can have multiple authorisations on the same local network.

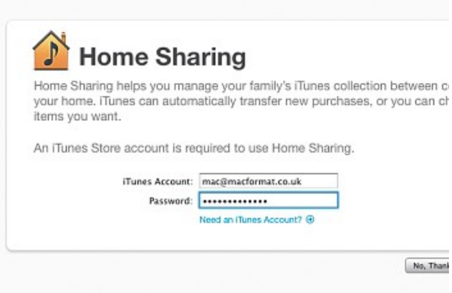
> *"If you buy an album, it can be pushed to other Macs and made available for listening and syncing"*

There's also a handy new feature that enables you to transfer *iTunes*-purchased content to all authorised Macs. So if you buy an album, it can be pushed to other Macs and made available for listening and syncing from them too. This only works with purchased *iTunes* content, but may be expanded in future.

Hollin Jones

HOW TO / How to set up Home Sharing in iTunes 9


View Controls Store Advanced Window Help
Open Audio Stream... ⌘U
Subscribe to Podcast...
Create iPod or iPhone Version
Create Apple TV Version
Create AAC Version
Turn On Home Sharing
Get Album Artwork
Get CD Track Names
Submit CD Track Names
Join CD Tracks
Deauthorize Audible Account...

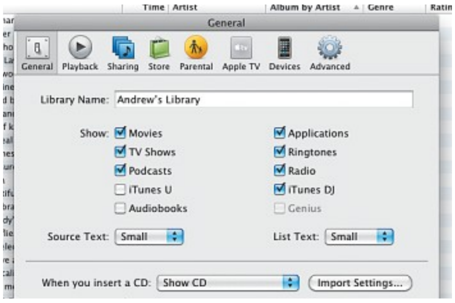

Home Sharing

Home Sharing helps you manage your family's iTunes collection between c
your home. iTunes can automatically transfer new purchases, or you can ch
items you want.

An iTunes Store account is required to use Home Sharing.

iTunes Account: mac@macformat.co.uk
Password: ••••••••••••

Need an iTunes Account?
No, Thank


General
General Playback Sharing Store Parental Apple TV Devices Advanced

Library Name: Andrew's Library

Show:
☑ Movies ☑ Applications
☑ TV Shows ☑ Ringtones
☑ Podcasts ☑ Radio
☐ iTunes U ☑ iTunes DJ
☐ Audiobooks ☐ Genius

Source Text: Small
List Text: Small

When you insert a CD: Show CD

Import Settings...

01 Activate Home Sharing

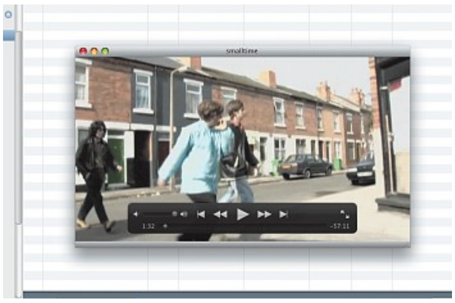
Open *iTunes 9* and go to Advanced > Turn On Home Sharing. You'll need to do this on each Mac or PC that you want to authorise, up to a total of five. You only have to turn it on once per machine and *iTunes* will remember. Of course, you'll need a network connection first!

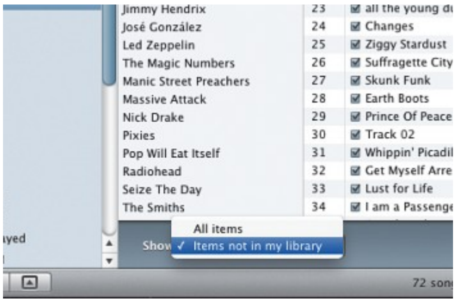
02 Enter account details

To authorise the sharing feature enter the details of the iTunes Store account you want to use. (You'll have to do this on every Mac or PC). Under the **Shared** tab in *iTunes'* left-hand column you should see any active libraries appear. Click to expand the tab if necessary.

03 Set the library names

If you go into *iTunes'* Preferences > General tab, you can enter a name for the library and this will be broadcast over the network and appear in each copy of *iTunes*. This is handy when you're using more than a couple of machines.




All items
Show ✓ Items not in my library
72 son

04 Browse a library

Select a shared library and click its triangular button to expand it. To stream any music, just select it either from the **Music** tab or from a playlist. The same also applies to movies. Dropping content into a library on one Mac will make it immediately available on all other Macs.

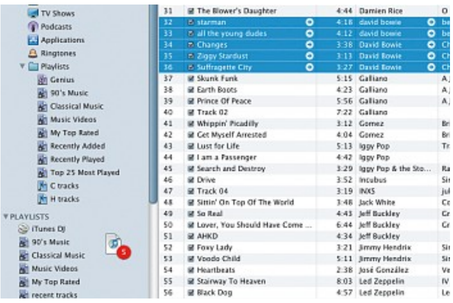
05 Choose view options

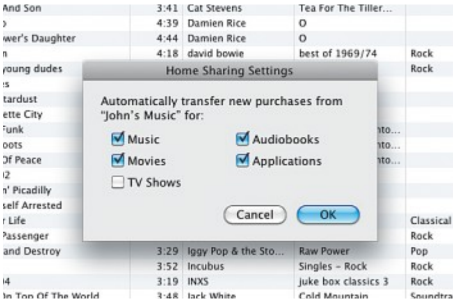
As shown above, there's an option at the bottom of the *iTunes* window that enables you to have on display either all items or just the items not already in your library. Choose this and you can be fairly sure you won't be needlessly filling space when you copy.

Summary Info Video Sorting Options Lyrics Artwork
Protection (7:52)
Massive Attack
Protection

QUICK TIP

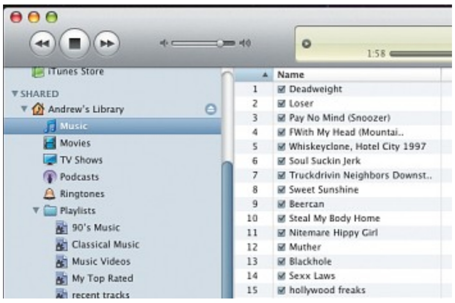
iTunes 9 uses metatags to identify tracks when comparing libraries. These tell you what's in your library and what isn't. Be sure to tag properly, using **CDDB** to get CD info when ripping CDs and not entering too much extra info of your own.




Home Sharing Settings

Automatically transfer new purchases from "John's Music" for:

☑ Music ☑ Audiobooks
☑ Movies ☑ Applications
☐ TV Shows


iTunes Store
SHARED
Andrew's Library
Music
Movies
TV Shows
Podcasts
Ringtones
Playlists

06 Copy some music

If you want a copy of one or more tracks from the target library, select them and drag and drop them into your library or a playlist. You can also use the **Import** button at the bottom right of the window to copy files across the network. Videos might take a while to transfer.

07 Automate sharing

If you click on the **Settings** button at the bottom, you can choose to automatically 'push' newly purchased iTunes Store content from the remote library to your library. So if you buy something, it will be copied automatically to your Macs to then be synced to your devices.

08 Try it from a second Mac

You can access from another Mac all the content from the Mac you were just working on. By selecting the **Music** tab and then using *iTunes'* **search** field, you can quickly identify tracks you want and drag them across to your local library. ●

Organise your iPhone's apps

Finally, an easy way to organise the apps on your iPhone's Home screens!

KEY INFO

DIFFICULTY:
Beginner

TIME NEEDED:
5 minutes

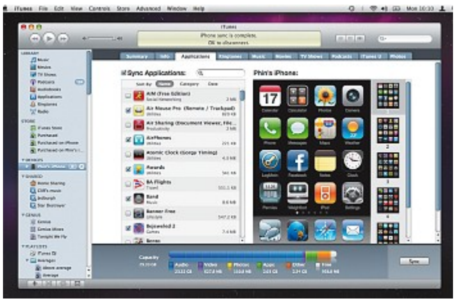
WHAT YOU'LL NEED:
iPhone/iPod touch running OS 3.1, iTunes 9

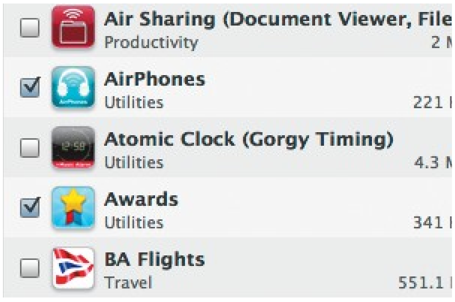
When the iPhone first appeared, its one static homescreen had just 11 icons on it (plus the four in the dock at the bottom), leaving five spaces free. (Not that, back then, there was anything to fill them with.)

Now though, with links to web apps and the explosion of native applications and games, it's rare to find an iPhone or iPod touch with fewer than two or three screens of apps, and it can be tricky to keep them organised. Sure, you can tap-and-hold to start the icons jiggling and shuffle them around that way, but it can be a real pain. However, the latest versions of *iTunes* and the iPhone OS let you organise your apps on your Mac with ease. All that's left for you to do is to decide how you want to organise your apps (by games, travel, or whatever). The good news is that you can switch the order of entire screens in *iTunes*, so even if you sort them by theme, you can shuffle the themes around to suit you. Got your iPhone and *iTunes* updated? Let's begin!

Christopher Phin

HOW TO / Get your iPhone applications in order





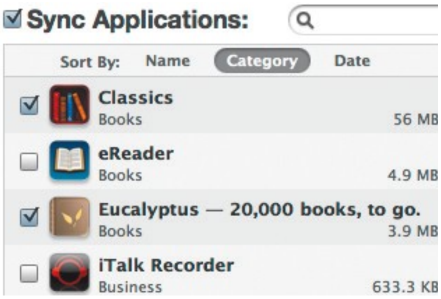
☐ Air Sharing (Document Viewer, File
Productivity 2 M

☑ AirPhones
Utilities 221 I

☐ Atomic Clock (Gorgy Timing)
Utilities 4.3 M

☑ Awards
Utilities 341 I

☐ BA Flights
Travel 551.1 I



☑ Sync Applications:

Sort By: Name Category Date

☑ Classics
Books 56 MB

☐ eReader
Books 4.9 MB

☑ Eucalyptus — 20,000 books, to go.
Books 3.9 MB

☐ iTalk Recorder
Business 633.3 KB

01 Select your iPhone

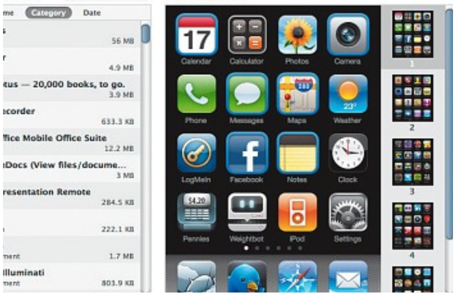
Update *iTunes* to the version 9 (Apple menu > Software Update) and your iPhone OS to version 3.1. To do this, click the **Check for Update** button in the **Summary** pane of *iTunes* when you click on your iPhone in the **Source** list. This is now the new **Applications** tab.

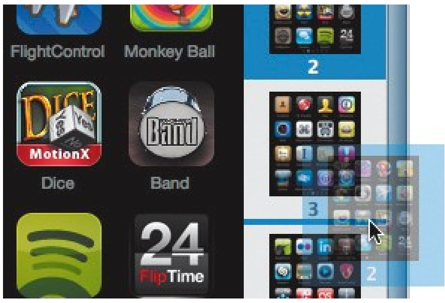
02 Enable and disable apps

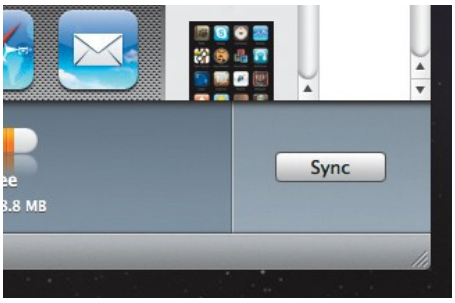
To remove apps from your iPhone or touch, click the checkbox next to its name in the list of apps here. (To add new apps, you still have to go through the iTunes Store; this screen is just for managing those apps you already have.) You can hover over an app and click the **x**.

03 Sort your apps

To help find apps you want to enable or disable, use the search field at the top of the list, or choose to sort them by date or category. (Apple, please give us the option of automatically grouping apps by category; some would hate it, but some of us would love it!)







04 Select and move apps

To move apps around on the homescreens – or to different screens altogether – just drag and drop. You can drag apps in from the list on the left as well. Select multiple apps by holding down ⌘ or ⇧, and drag them all at once.

05 Reorder the screens

Once you've got your homescreens set up how you want, rearrange them wholesale. Grab one with your mouse from the list at the right, and move it up or down the list. If you have lots of screens and need to scroll, hover your mouse at the top or bottom of the list.

06 Apply your changes

Once you're happy with how things are set up hit **Sync** at the bottom of the *iTunes* window; your iPhone or iPod touch will then sync as usual. If all you've done is to rearrange your apps, the sync should only take a few seconds, so you can keep tinkering till it's right.

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Configure a Mighty Mouse

Set up your Mighty Mouse to suit your requirements exactly

>> KEY INFO

DIFFICULTY:
Beginner

TIME NEEDED:
15 minutes

WHAT YOU'LL NEED:
OS X 10.4.2 Tiger or later

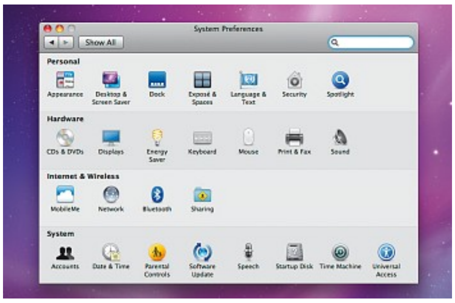
Apple's Mighty Mouse offers touch-sensitive, 360-degree scrolling, laser-guided precision and buttons that can be configured through your *System Preferences*. The drivers are installed automatically with recent versions of OS X, but if you happen to be running an old version, you might need to run *Software Update* or install the drivers from the bundled CD, where available.

This tutorial outlines how you configure your Mighty Mouse to suit your needs. It's written using Snow Leopard, but works for OS X 10.4.2: Tiger or later. If you're running Panther versions 10.3.9 to Tiger 10.4.1, your configuration options are limited to assigning primary and secondary buttons, and activating *Exposé*. If you're still running OS X 10.3.8 or earlier, Mighty Mouse can be used as a standard USB mouse, but it cannot be configured.

Some Scroll Ball and side-button features require OS X 10.4.6 or later. The wireless Mighty Mouse needs 10.4.8 or later.

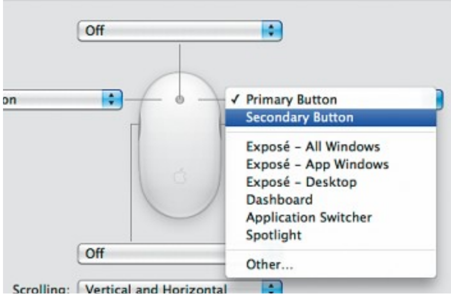
Ian Osborne

>> HOW TO / Configure your Mighty Mouse


System Preferences
Show All
Personal
Appearance
Desktop & Screen Saver
Dock
Exposé & Spaces
Language & Text
Security
Spotlight
Hardware
CDs & DVDs
Displays
Energy Saver
Keyboard
Mouse
Print & Fax
Sound
Internet & Wireless
MobileMe
Network
Bluetooth
Sharing
System
Accounts
Date & Time
Parental Controls
Software Update
Speech
Startup Disk
Time Machine
Universal Access

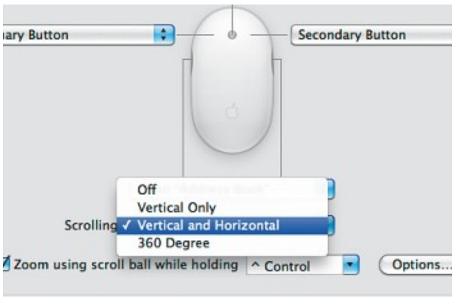
01 Open the pane

Open *System Preferences* and select the **Mouse** pane (Snow Leopard), or select **Keyboard & Mouse** and click on the **Mouse** tab (Leopard or Tiger). To set up a Bluetooth Mighty Mouse, use the **Bluetooth** tab, or the button at the foot of Snow Leopard's **Mouse** pane.


Off
on
✓ Primary Button
Secondary Button
Exposé – All Windows
Exposé – App Windows
Exposé – Desktop
Dashboard
Application Switcher
Spotlight
Other…
Off
Scrolling: Vertical and Horizontal

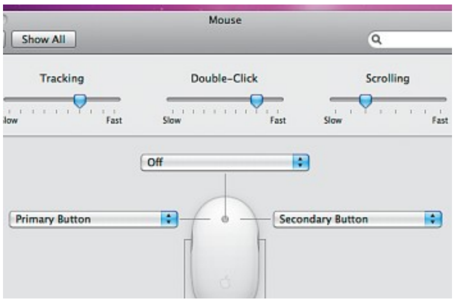
02 Setting your buttons

Use the pulldown menus to define each button's function. Selecting **Secondary Button** in the right-hand pulldown gives the same functionality as a two-button mouse. Select **Other** and navigate to an application to use that button to open the chosen app.


ary Button
Secondary Button
Off
Vertical Only
Scrolling ✓ Vertical and Horizontal
360 Degree
Zoom using scroll ball while holding
^ Control
Options…

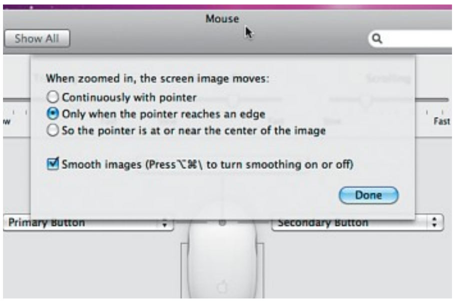
03 The scroll ball

The Mighty Mouse's Scroll Ball can scroll documents and web pages sideways, as well as up and down. You can set it to scroll vertically only, vertically or horizontally (but not both together), both ways at once (the 360-degree option) or switch off the function completely.


Mouse
Show All
Tracking
Double-Click
Scrolling
low
Fast
Slow
Fast
Slow
Fast
Off
Primary Button
Secondary Button

04 Fine tuning

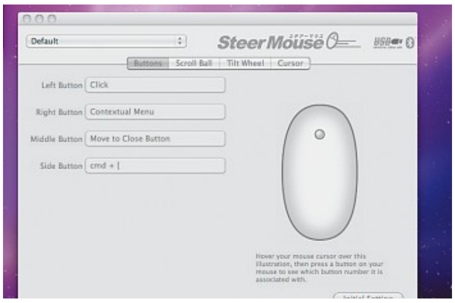
Tune its performance using the sliders at the top of the pane in Snow Leopard, or the bottom in Tiger and Leopard. **Tracking** adjusts how fast the pointer moves. **Double-Click** affects how speedy your clicks need to be, and **Scrolling** covers the Scroll Wheel speed.


Mouse
Show All
Done
Primary Button
Secondary Button

When zoomed in, the screen image moves:
○ Continuously with pointer
● Only when the pointer reaches an edge
○ So the pointer is at or near the center of the image
☑ Smooth images (Press ⌥⌘\ to turn smoothing on or off)

05 Zooming in and out

With the checkbox ticked, your Scroll Ball can be used to zoom into and out of the screen while you press ctrl. You can change this to a button of your choice, and the **Options** button lets you define how this function works. It's good to get familiar with this useful feature.


Default
SteerMouse
Buttons
Scroll Ball
Tilt Wheel
Cursor
Left Button
Click
Right Button
Contextual Menu
Middle Button
Move to Close Button
Side Button
cmd +]

06 A step further...

If you want to configure your Mighty Mouse further, try USB Overdrive (**www.usboverdrive.com**) or Steermouse (**www.tinyurl.com/2tufew**). At the time of writing both worked with Snow Leopard in 32-bit mode, with 64-bit updates imminent. ●

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192.168.121.121
SYSTEM STATUS OK
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>> OS X SURVIVAL GUIDE

Train your MacBook

Christopher Brennan is the Barbara Woodhouse of Macs

>> PROFILE

Name: Christopher Brennan
Occupation: Freelance journalist, Mac consultant and house-husband
System(s): Mac Pro (2x 2.8GHz), MacBook (2GHz), 20-inch iMac (2GHz), 12-inch PowerBook G4 (1GHz)

Sod's Law, much like Moore's Law, is not so much a law than a general indicator. It's weird though how things seem to go wrong just when you need them the most. And it feels like the number of processors that are squeezed onto a circuit does seemingly double every two years or so. However, Moore's law certainly has more benefits than Sod's law.

I was running like crazy for a train and had my lovely MacBook safely packed in my case, as I needed it for an urgent meeting. However, somewhere between the newly installed ticket barriers in Leeds, the overhead rack on the train and along the Circle Line beneath London, its lid had popped open. Don't ask me how because I have no idea.

Gutted...

When I eventually arrived at my destination my MacBook was most unresponsive. I knew I'd charged it up the night before, but for some reason the battery was dead. Now, this is where Sod's law kicks in; my charger was tucked away in a drawer back at home. I'd completely forgotten to take it with me. Whilst you're down, the law of Sod loves to give you an extra kick to add to the pain of it all. All the other people in the room had their PC laptops and there was not a MagSafe connector to be found. So I had to make notes by hand and make do without my Mac. This was bad enough in the meeting, but it especially made the train journey home a real pain. On the journey back, as I drank weak tepid coffee and dozed in and out of sleep, I began to think about how my MacBook run out of charge whilst it was in my bag. And it was then that I worked out that the lid of my MacBook came open in the bag, which woke it from its sleeping state and slowly drained the battery just in time for my meeting. Working out how I'd forgotten my charger was much easier: I'm an idiot.

> *"All the other people in the room had PC laptops and there was not a MagSafe connector to be found. I had to make notes by hand..."*

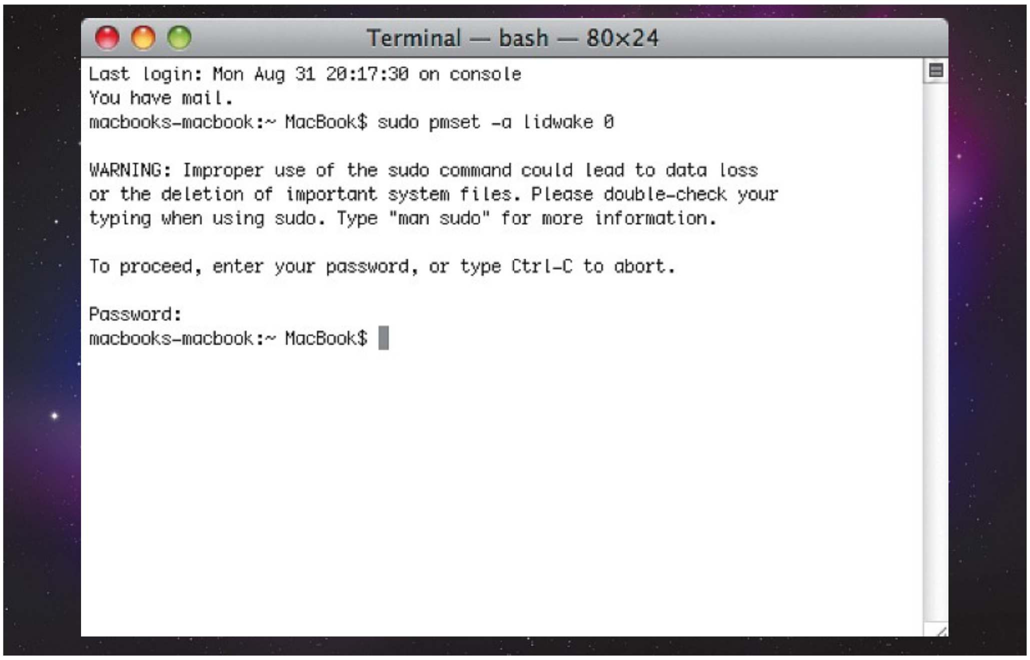
The solution

To ensure that this would never happen again, as soon as I got home I had a search for the sleep command online. I discovered that it was a facility, which when used in the correct manner, can be an incredibly useful and helpful resource. And you can turn off the wake from the command just for the times you open the lid of your Mac laptop. All it takes is a little *Terminal* massage. To ensure your Mac does not wake from sleep when you open the lid go to Applications > Utilities and open *Terminal*. To the uninitiated the *Terminal* window doesn't look like much, but you can do an awful lot with this simple application. Type:

```
sudo pmset -a lidwake 0
```

and press ↩. Now type your password (note that it won't be shown, in fact it'll look like nothing is happening), press ↩ again and restart your Mac. Now when you put your Mac to sleep by closing the lid or going to the menu it won't wake from that sleep when the lid is lifted. All you'll have to do is press any key to rouse your Mac from its slumber. It wouldn't hurt to go to System Preferences > Energy Saver and make sure Computer sleep isn't set to Never. This will ensure that if your Mac does find itself awake without a responsible adult it goes back to sleep in an orderly fashion.

If you decide that this is too much trouble type the command again, replacing the 0 with a 1 and your Mac will automatically wake once again as you open the lid. ●



```
Last login: Mon Aug 31 20:17:30 on console
You have mail.
macbooks-macbook:~ MacBook$ sudo pmset -a lidwake 0

WARNING: Improper use of the sudo command could lead to data loss
or the deletion of important system files. Please double-check your
typing when using sudo. Type "man sudo" for more information.

To proceed, enter your password, or type Ctrl-C to abort.

Password:
macbooks-macbook:~ MacBook$ ▌
```

Terminal might not look like the most powerful application on a Mac, but looks can be deceptive.

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Share an internet connection

OS X enables you to share a Mac's broadband connection with a few clicks

» KEY INFO

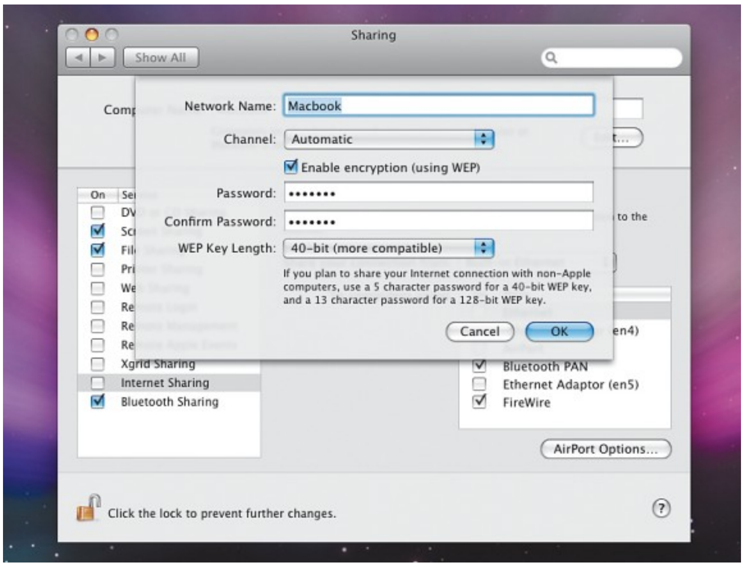
DIFFICULTY
Intermediate

TIME NEEDED
5 minutes

WHAT YOU'LL NEED
At least two Macs – one with an AirPort card, an internet connection, a FireWire or Ethernet cable, Bluetooth capability (optional)

Getting your Mac online is generally quite straightforward, especially if you run your own AirPort network or connect through a USB or Ethernet cable directly to a router or cable modem. Troubleshooting connection issues can often be as simple as restarting a router, modem or Mac.

This doesn't always work, of course. The culprit could be an older Mac or an outdated version of Mac OS X. Occasionally, a Mac may refuse to see the network even though it's set up correctly. A more common occurrence, however, involves having an older Mac that desperately needs updating – but lacks a wireless card.



Network Name: Macbook
Channel: Automatic
☑ Enable encryption (using WEP)
Password: •••••••
Confirm Password: •••••••
WEP Key Length: 40-bit (more compatible)
If you plan to share your Internet connection with non-Apple computers, use a 5 character password for a 40-bit WEP key, and a 13 character password for a 128-bit WEP key.
☐ Xgrid Sharing
☐ Internet Sharing
☑ Bluetooth Sharing
☑ Bluetooth PAN
☐ Ethernet Adaptor (en5)
☑ FireWire

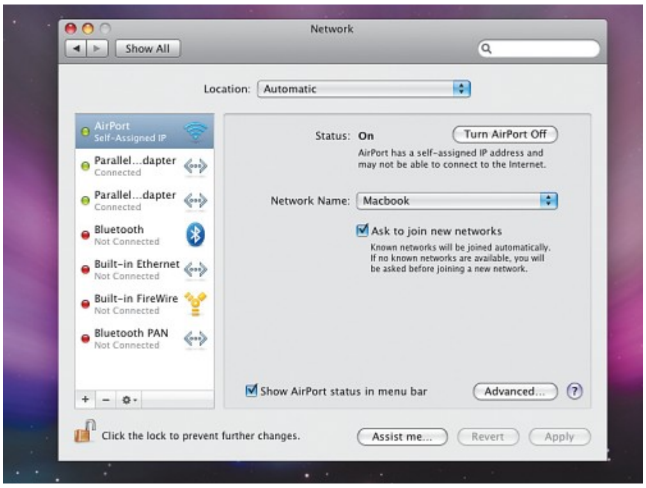
A Mac with an AirPort card can quite easily be set up to share its net connection.

Making connections

Increasingly, homes and offices have wireless networks, which means plugging a problematic Mac directly into the router can be a fiddly process and not a practical solution. An ideal workaround would be to get the Mac online without connecting it to a router.

What you may not know is that OS X has for some time offered the ability to share a Mac's internet connection to other computers across a variety of connection formats. The **Sharing** tab in *System Preferences* is home to an option to turn on **Internet Sharing**. With this, you can choose a source, which is the means by which the Mac connects to the internet, and a destination – the method or device through which you want to connect the second Mac. The available options vary depending on your model and the selected options. Almost all Macs have a FireWire port, so this should appear as an optional destination. Should your Mac have Bluetooth – which has been enabled in its *System Preferences* pane – this should also appear.

> *"OS X has for some time offered the ability to share a Mac's internet connection to other computers across a variety of network formats"*



Location: Automatic
AirPort
Self-Assigned IP
Status: On
AirPort has a self-assigned IP address and may not be able to connect to the Internet.
Network Name: Macbook
☑ Ask to join new networks
Known networks will be joined automatically. If no known networks are available, you will be asked before joining a new network.
☑ Show AirPort status in menu bar

On the destination Mac, you may need to activate some ports in the System Preferences Network pane to share to them.

A typical example is to share a Mac's Ethernet broadband connection over FireWire using this setup window, and then plug a FireWire cable between the two Macs. OS X will then 'broadcast' the broadband connection across the cable to the second Mac and, in most cases, it should be able to see it, with a reboot of the second Mac occasionally necessary to enable the connection to be identified properly.

If this doesn't work, you can go into the network preferences on the second Mac – which will vary slightly depending on the version of OS X it's running – and select the network interface's properties to make sure it's working. Sometimes you might have to manually add or activate a port – especially FireWire – to bring it online. The same applies to sharing a Mac's AirPort connection over Bluetooth or Ethernet.

AirPort wireless

You can also set up your own wireless network without the need for a router, as long as you have an AirPort card-equipped Mac connected directly to the internet. If you choose to share its AirPort connection to other AirPort Macs by selecting **Create Network** from the **AirPort** icon in the menu bar, you can effectively create a wireless network, complete with password protection.

Hollin Jones

HOW TO / Share your Mac's internet connection

01 Choose a source

Go to System Preferences > Sharing and locate the **Internet Sharing** option. Don't activate it yet, otherwise you won't be able to change its settings. In almost all circumstances, your Mac's internet will be coming via AirPort or Ethernet. Choose either of these as the source in the menu with the **Share your connection from:** prefix.

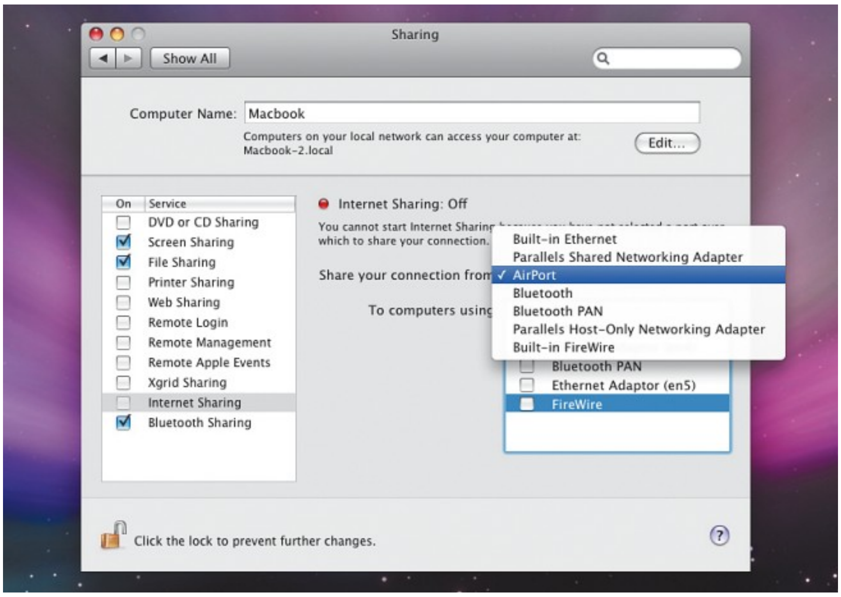
02 Choose a destination

Decide which port you want to use to share the connection. Let's say it's FireWire – choose this from the **To computers using:** list. Then tick the box next to **Internet Sharing** in the **Service** list on the left to start it up. Connect the second Mac to the first by plugging a FireWire cable between them. The second Mac may need a restart and you may have to go into its **Network** pane in *System Preferences* to add FireWire as a network location.

Some versions of OS X will automatically detect all available interfaces, but occasionally you have to add them manually. You can connect the two Macs using an Ethernet cable by selecting the appropriate option. If you choose to share an Ethernet connection over Ethernet, which is technically possible, OS X warns you that this has the potential to cause conflicts with your ISP. If you want to take this approach it's worth checking with them.

03 Set up Bluetooth

Perhaps you want to share an Ethernet connection over Bluetooth. Go to System Preferences > Hardware > Bluetooth and click **Advanced**. From here you can activate an option called **Share my internet connection with other Bluetooth devices**. If you check this box and return to the internet sharing section, you'll see that Bluetooth appears as both an available source and destination.



Computer Name: Macbook
Computers on your local network can access your computer at: Macbook-2.local

On	Service
☐	DVD or CD Sharing
☑	Screen Sharing
☑	File Sharing
☐	Printer Sharing
☐	Web Sharing
☐	Remote Login
☐	Remote Management
☐	Remote Apple Events
☐	Xgrid Sharing
☐	Internet Sharing
☑	Bluetooth Sharing

● Internet Sharing: Off
You cannot start Internet Sharing because you have not selected a port which to share your connection.
Share your connection from: ✓ AirPort
To computers using: FireWire

Built-in Ethernet
Parallels Shared Networking Adapter
✓ AirPort
Bluetooth
Bluetooth PAN
Parallels Host-Only Networking Adapter
Built-in FireWire
☐ Bluetooth PAN
☐ Ethernet Adaptor (en5)
☐ FireWire
Click the lock to prevent further changes.

Share your Mac's net connection over a number of different sources, including Ethernet and AirPort.

04 Share an AirPort connection

Consider this scenario: you have a Mac connected to the internet via a direct cable or USB modem. This is quite common, especially with iMacs or tower Macs such as G4s, G5s or Mac Pros. If that Mac also happens to have an AirPort card installed, it might not be in use since the Mac sits next to the modem, so you don't need a wireless network. But if you have an iPod touch, iPhone or laptop, you really want to be able to get online wirelessly as well. Normally you would have to buy an AirPort base station or third-party wireless router to achieve this, but you may not have known that you can use the AirPort card in the Mac as a base station.

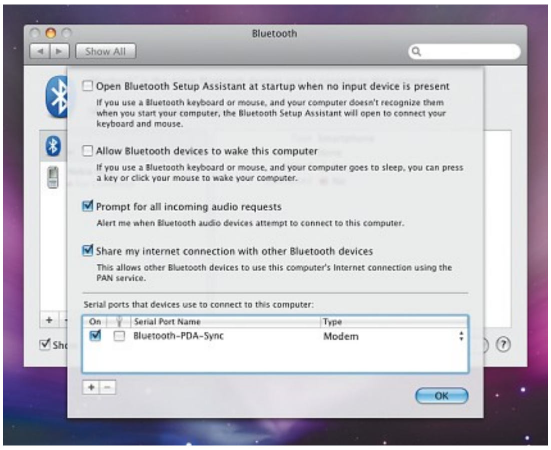
Making sure the AirPort card is enabled in the **Network** pane of *System Preferences*, click on its icon in the menu bar and choose **Create Network**. Alternatively, in the **Internet Sharing** pane, choose **Ethernet** from the source list and activate **AirPort** as a destination, then click the **AirPort Options** button. Both methods bring up the **Create Network** window.

05 Protect your network

In the **Create Network** window, choose a name for the wireless network, which will be broadcast from the Mac. Then choose a wireless channel, which can usually safely be left on **Automatic** (11). Check the box to require a password, then choose a 40 or 128-bit WEP key as a security option and select a password. Use a five-character password for a 40-bit key and a 13-character password for a 128-bit key, the latter being more secure.

06 Join the new network

From the other Mac, Windows laptop, iPod touch or iPhone, choose to join the new network, which should appear as an available network. The **AirPort** icon in the menu bar of the net-connected Mac will display a tiny arrow icon to denote that its connection is being shared. So now you are sharing your Ethernet or USB internet connection to wireless clients securely, and all without having to purchase any extra hardware! ●



☐ Open Bluetooth Setup Assistant at startup when no input device is present
If you use a Bluetooth keyboard or mouse, and your computer doesn't recognize them when you start your computer, the Bluetooth Setup Assistant will open to connect your keyboard and mouse.

☐ Allow Bluetooth devices to wake this computer
If you use a Bluetooth keyboard or mouse, and your computer goes to sleep, you can press a key or click your mouse to wake your computer.

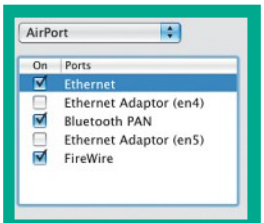
☑ Prompt for all incoming audio requests
Alert me when Bluetooth audio devices attempt to connect to this computer.

☑ Share my internet connection with other Bluetooth devices
This allows other Bluetooth devices to use this computer's Internet connection using the PAN service.

Serial ports that devices use to connect to this computer:

On		Serial Port Name	Type
☑	☐	Bluetooth-PDA-Sync	Modem

Internet connections can be shared over Bluetooth if it's available, but it must be enabled in System Preferences first.



On	Ports
☑	Ethernet
☐	Ethernet Adaptor (en4)
☑	Bluetooth PAN
☐	Ethernet Adaptor (en5)
☑	FireWire

QUICK TIP

In the sharing destination window, you can choose to share a net connection to more than one destination – for example, to share AirPort to FireWire, Bluetooth and Ethernet at the same time – though only from one source at a time.

MacBook Pro
MacFormat
http://www.macformat.co.uk/
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Internet Tethering

Get roaming internet access on your Mac by pairing it with your iPhone.

Tether your iPhone

Connect to the internet using your iPhone – great for when you're travelling!

>> KEY INFO

DIFFICULTY: Intermediate

TIME NEEDED: 10 minutes

WHAT YOU'LL NEED: An iPhone 3G or 3GS running iPhone OS 3.0 or later, plus a Mac running Mac OS X 10.5.7 or later with Bluetooth or a USB port (it works with a PC as well, but we're only showing the Mac technique here!)

The more you use your iPhone, the more you can get frustrated that your Mac notebook lacks the ability to connect to the internet wherever you go. Hotspots are all very well, but they don't help when you're on a train, or if you need to file a document when you're out and about. Happily, the iPhone can get you online anywhere you can get a mobile data signal.

It's a process called tethering – accessing the internet on your Mac through your iPhone. You can do it by connecting your iPhone to a spare USB port on your Mac, or simply by pairing them using Bluetooth technology. With this latter method, you can leave your iPhone in your bag or pocket – so long as it's within a few feet of your Mac, then you're good to go – though bear in mind that having Bluetooth active will reduce the battery life of both the Mac and iPhone.

Sadly, you can't just piggyback your iPhone's own unlimited data connection – at least, not without jailbreaking your iPhone and getting on the wrong side of the law. Instead you need to add a tethering bolt-on from O2. You'll have to pay either £14.68 a month for a 3GB cap, or £29.36 a month for 10GB, though this does also give you access to 5,000 WiFi hotspots nationwide as part of The Cloud network. (Note that this is very much a UK-only deal; AT&T in the US doesn't even support tethering yet, and international roaming for data isn't included.)

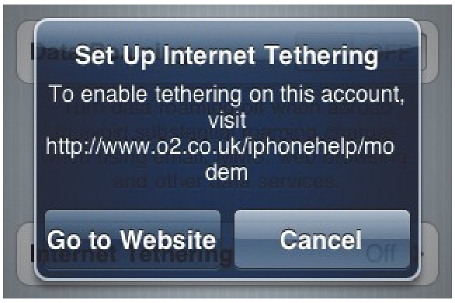
> *"Hotspots are all very well, but they don't help when you're on a train, or when you're out and about"*

If your iPhone is connected to the data cell network with just GPRS or EDGE, any incoming calls will go to voicemail while you're tethering, though if it's connected using 3G or WiFi, you can take and make calls at the same time.

So, how's it done? We borrowed a loaded iPhone from O2's press office and set to finding out!

Christopher Phin

HOW TO / Pair your iPhone with your MacBook

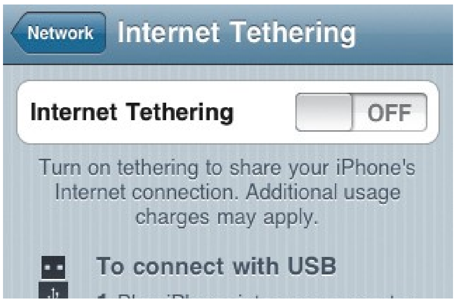

Set Up Internet Tethering

To enable tethering on this account, visit http://www.o2.co.uk/iphonehelp/modem

Go to Website
Cancel

01 Configure tethering

First, you have to add O2's Internet Tethering Bolt On. Visit **www.o2.co.uk/paymonthlyiphonemodem**; O2 aims to add the capability to your account within 24 hours. Then, on your iPhone, go to Settings > General > Network > Set Up Internet Tethering.


Internet Tethering

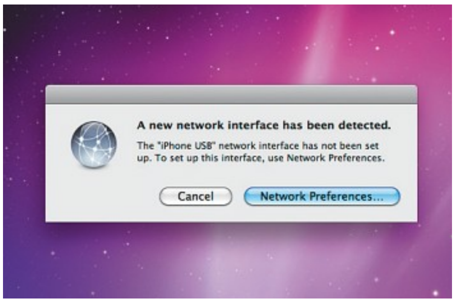
Internet Tethering: OFF

Turn on tethering to share your iPhone's Internet connection. Additional usage charges may apply.

To connect with USB

02 Enable tethering

You can turn tethering on by flicking the switch. Apple provides information on how to connect using either USB or Bluetooth, right here on the tethering screen. It's not exhaustive, though; this tutorial will give you better guidance on getting everything set up.

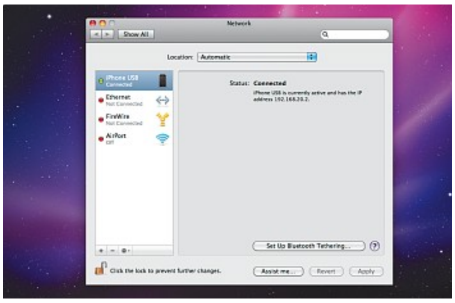

A new network interface has been detected.

The "iPhone USB" network interface has not been set up. To set up this interface, use Network Preferences.

Cancel
Network Preferences...

03 Set up USB

Once you've enabled tethering, simply plug your iPhone into one of your Mac's USB ports. The above message should pop up on your screen, letting you know that a new network port has been added; now click **Network Preferences**.


Location: Automatic

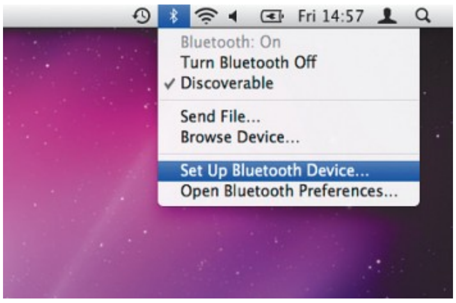
Status: Connected

iPhone USB is currently active and has the IP address 192.168.20.2.

Network
Show All
iPhone USB
Connected
Ethernet
Not Connected
FireWire
Not Connected
AirPort
Off
Set Up Bluetooth Tethering...
Click the lock to prevent further changes.
Assist me...
Revert
Apply

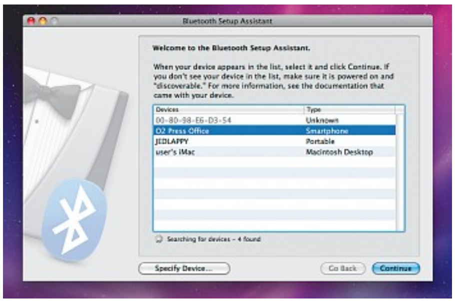
04 Connect over USB

Assuming the phone itself has a data connection, you'll see the iPhone has already connected your Mac to the internet. Look for a circle and an 'E' or a '3G' icon next to the network name in the status bar. To disconnect, unplug the iPhone, or turn tethering support off.


Fri 14:57
Bluetooth: On
Turn Bluetooth Off
✓ Discoverable
Send File...
Browse Device...
Set Up Bluetooth Device...
Open Bluetooth Preferences...

05 Set up Bluetooth

Click the **Bluetooth** icon in the menu bar and select **Set Up Bluetooth Device**. This will start the *Bluetooth Setup Assistant*, the same thing you'd launch if you opened the **Bluetooth** pane of *System Preferences* and clicked the **Set up new device** button.


Welcome to the Bluetooth Setup Assistant.

When your device appears in the list, select it and click Continue. If you don't see your device in the list, make sure it is powered on and "discoverable." For more information, see the documentation that came with your device.

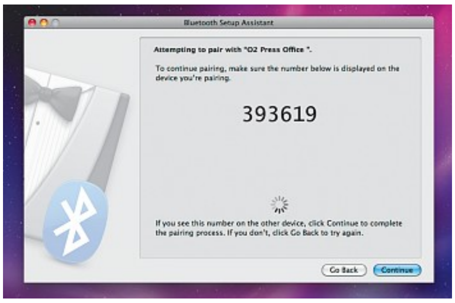
Devices	Type
00-80-98-E6-D3-54	Unknown
O2 Press Office	Smartphone
JEDLAPPY	Portable
user's iMac	Macintosh Desktop

Searching for devices – 4 found

Bluetooth Setup Assistant
Specify Device...
Go Back
Continue

06 Identify your iPhone

To pair your iPhone with your Mac over Bluetooth, first pick it from the list here. (If your iPhone doesn't show up, make sure Bluetooth is switched on on your iPhone; it's in the **General** section of **Settings**.) It may take a moment for its name to be displayed.


Attempting to pair with "O2 Press Office ".

To continue pairing, make sure the number below is displayed on the device you're pairing.

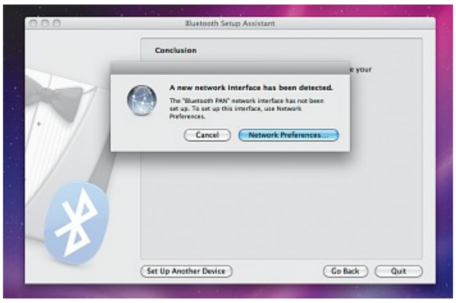
393619

If you see this number on the other device, click Continue to complete the pairing process. If you don't, click Go Back to try again.

Bluetooth Setup Assistant
Go Back
Continue

07 Pair your iPhone

The system generates a passkey to get the two devices connected. A message will pop up on your iPhone, asking you to confirm that the passkeys match. Tap the **Pair** button then click the **Continue** button on the Mac before the process times out.


Conclusion

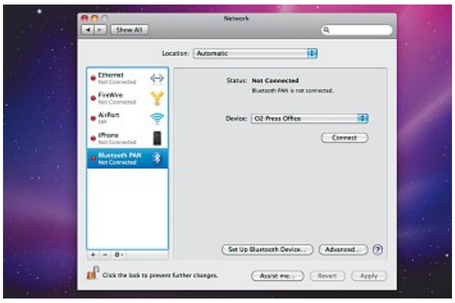
A new network interface has been detected.

The "Bluetooth PAN" network interface has not been set up. To set up this interface, use Network Preferences.

Bluetooth Setup Assistant
Cancel
Network Preferences...
Set Up Another Device
Go Back
Quit

08 Configure new interface

Once the Bluetooth pairing is complete – during which time the Mac configures itself for tethering – you'll see an alert on your Mac telling you that a new network port (a Bluetooth Personal Area Network) has been detected. Click the **Network Preferences** button.


Location: Automatic

Status: Not Connected

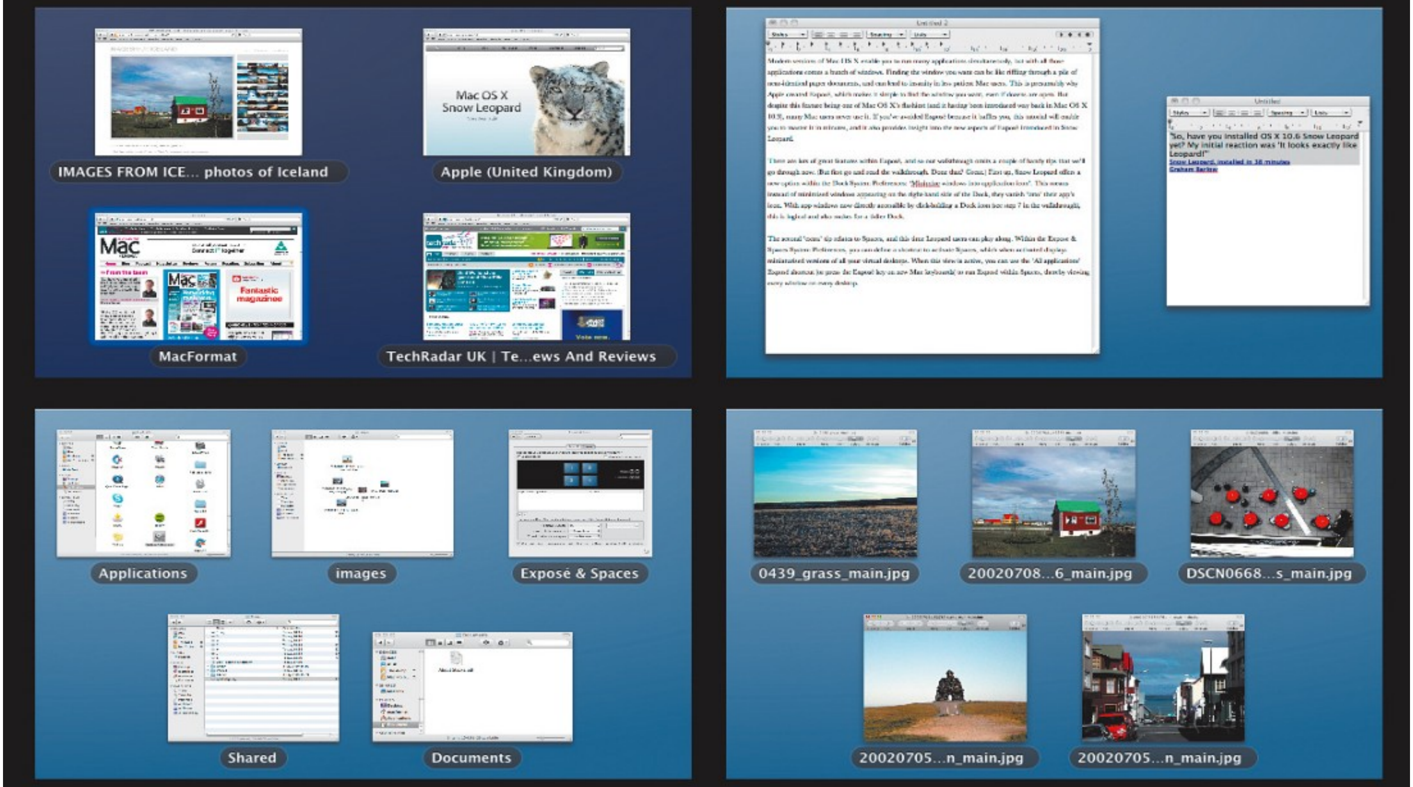
Bluetooth PAN is not connected.

Device: O2 Press Office

Network
Show All
Ethernet
Not Connected
FireWire
Not Connected
AirPort
Off
iPhone
Not Connected
Bluetooth PAN
Not Connected
Connect
Set Up Bluetooth Device...
Advanced...
Click the lock to prevent further changes.
Assist me...
Revert
Apply

09 Connect

To connect over Bluetooth, launch the **Network** *System Preferences* pane (it'll be open, since you just clicked the **Network Preferences** button) then select **Bluetooth PAN** from the list at the left. Make sure the correct device is selected, then click the **Connect** button. ●


IMAGES FROM ICE... photos of Iceland
Apple (United Kingdom)
MacFormat
TechRadar UK | Te...ews And Reviews
Applications
images
Exposé & Spaces
Shared
Documents
0439_grass_main.jpg
20020708...6_main.jpg
DSCN0668...s_main.jpg
20020705...n_main.jpg
20020705...n_main.jpg

Use Exposé within Spaces to view all the windows on each of your workspaces.

Work smarter in OS X

Learn about Exposé shortcuts and the new features in Snow Leopard

» KEY INFO

DIFFICULTY:
Beginner

TIME NEEDED:
10 minutes

WHAT YOU'LL NEED:
OS X 10.5 Leopard (steps 1-5);
OS X 10.6 Snow Leopard (steps 6-8)

Mac OS X enables you to run many applications simultaneously, without fear of a crashing app locking everything up, but with all those apps comes a bunch of windows. Finding the one you want can be like riffling through a big pile of virtually identical papers. This is presumably why Apple created *Exposé*, which makes it simple to find the window you want, even if you have dozens open. But despite this feature being one of Mac OS X's flashiest (and its introduction being way back in Mac OS X 10.3), many people never use it.

If you've avoided using *Exposé* because you find it baffling, this tutorial will enable you to master it in minutes. It also takes a look at the new aspects of *Exposé* that Apple has added in Snow Leopard.

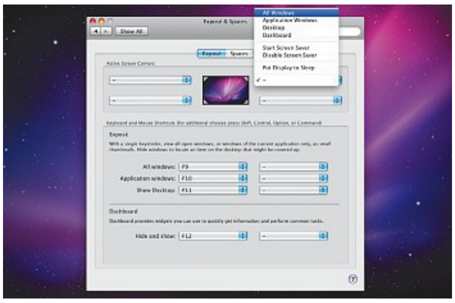
There are lots of useful features within *Exposé*, and our walkthrough omits a couple of handy tips which we'll cover now. (But first read the walkthrough. Done that? Great.) First up, Snow Leopard offers a new option for minimising windows. Go to System Preferences > Dock and check **Minimize windows into an application icon**. With this option selected, instead of minimised windows appearing at the right-hand end of the Dock, they vanish into their app's icon. App windows will now be directly accessible by click-holding a Dock icon (see Step 7).

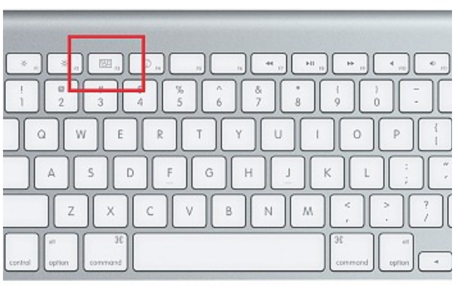
> *"Finding the window you want can be like riffling through a big pile of virtually identical papers"*

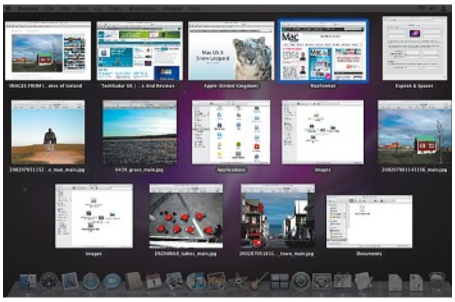
The second extra tip relates to *Spaces*, and works in Leopard too. Within System Preferences > Exposé & Spaces, you can set a shortcut to show your *Spaces*, which, when activated, displays miniaturised versions of all your virtual desktops. When this view is active, you can use the **All applications** *Exposé* shortcut (or press the F3 key on new Mac keyboards) to run *Exposé* within *Spaces*, thereby seeing every window on every Desktop.

Craig Grannell

HOW TO / Get the most out of Exposé







01 Define shortcuts

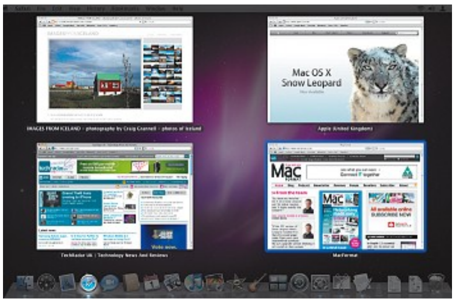
Go to System Preferences > Exposé & Spaces. Here, you can set keyboard shortcuts for *Exposé* actions: **All windows**, **Application windows** and **Show Desktop** (by default, F9, F10 and F11). Actions can also be set to trigger when the cursor moves to a screen corner.

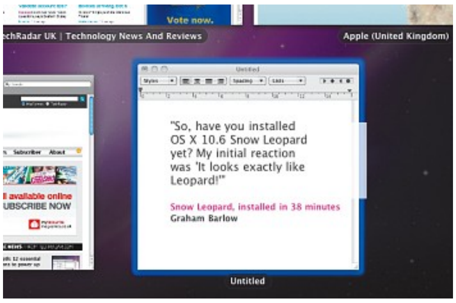
02 Examine your keyboard

If you have an Apple keyboard with special keys, you'll either need to hold fn while pressing the default *Exposé* shortcuts, or use the *Exposé* key, F3. Alternatively, you can set function keys to work as standard via System Preferences > Keyboard.

03 View all your windows

Hold F9 (or the *Exposé* key). Your app windows will be shown, and everything else will dim. In Snow Leopard, windows are shown in a neat grid layout and minimised ones appear below a faint line. Older versions of Mac OS X omit minimised windows from *Exposé*.





"So, have you installed OS X 10.6 Snow Leopard yet? My initial reaction was 'It looks exactly like Leopard!"

Snow Leopard, installed in 38 minutes
Graham Barlow

04 Further Exposé shortcuts

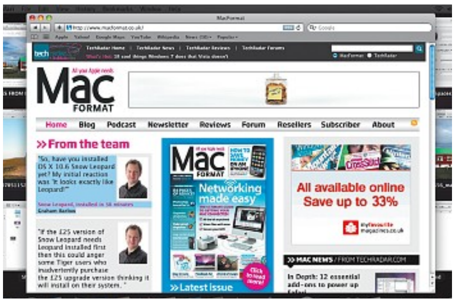
Press F10 (or hold ctrl+*Exposé* key) and the windows revealed to you will be restricted to those associated with the currently focussed application. Press F11 (or ⌘+*Exposé* key) and all open windows will rapidly move to the screen edge to reveal your Desktop.

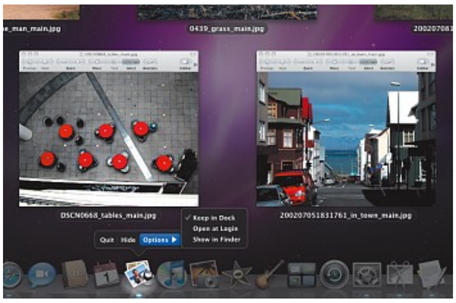
05 Drag and drop

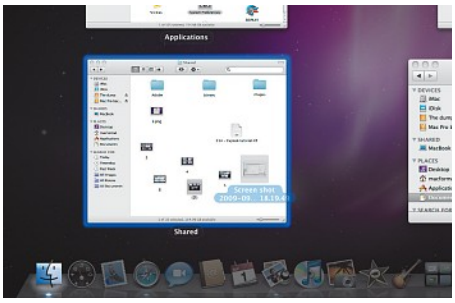
Open a website in *Safari* and a new *TextEdit* document. Select some text in *Safari*, click-hold for a second and drag. Invoke *Exposé*, move your dragged text over the *TextEdit* window, press the *Exposé* key again and release the mouse button to paste the text.

QUICK TIP

If you're new to the Mac and fancy seeing some eye candy, or want to see what Mac OS X does when moving windows around, hold down ⇧ while pressing any *Exposé* key. You'll be treated to a slow-motion version of the action.







06 Zoom in Snow Leopard

Snow Leopard adds new tricks to *Exposé*. One of the best is *Quick Look* integration: invoke *Exposé*, place your cursor over a window and press [Space]. You'll see a full preview of any window you mouse over. Press [Space] again to cancel this effect.

07 Use Dock Exposé

In Snow Leopard, click-hold on a Dock icon and the new **Dock Exposé** function kicks in. This is essentially the same as *Exposé*'s **Application windows** shortcut, but you don't need to switch to the app first. You can also access some of the Dock item's menu options.

08 Drag items to apps

Dock Exposé can speed up drag actions. To move a file, drag it to the *Finder* icon, hold for a second, mouse over a destination window, press [Space] or the *Exposé* key and release the mouse button to confirm the move. Also try this to attach files to open *Mail* messages. ●

Open apps automatically

Take control of what apps load by default when you start your Mac

» KEY INFO

DIFFICULTY: Beginner

TIME NEEDED: 15 minutes

WHAT YOU'LL NEED: An Apple Mac running OS X (Intel or PPC)

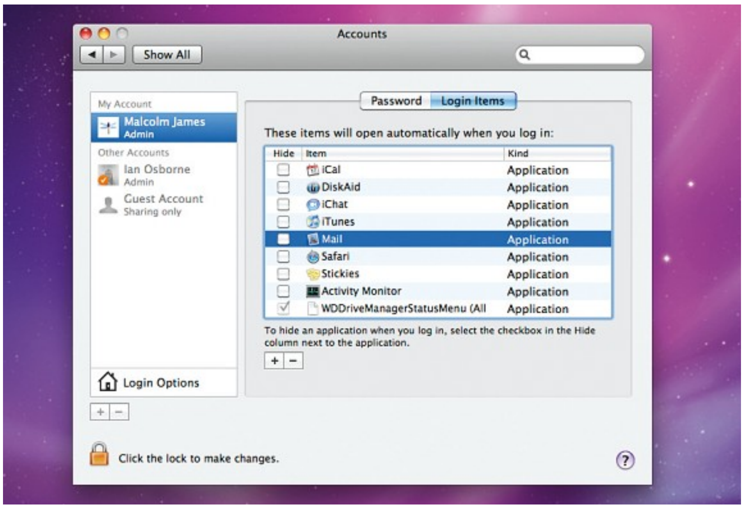
What's the first thing you do after booting your Mac? Do you open *iTunes*, because you always listen to your music while using your computer? Perhaps you immediately launch *Mail* and leave it running until you switch off? Maybe you open *Address Book* and *iCal*, getting yourself ready for the working day. Whatever you do, it's likely there's an application you open every time you log onto your machine, without fail.

With this tutorial, you can set programs to launch automatically. Files and folders can be set as login items too, though if an application or item requires a password, it appears in the Dock without opening. To finish opening it, click on its icon and give the password when prompted.

If more than one person has an account on your Mac, make sure you're logged in as the user who wants to set a login item. When correctly logged in, from the Apple menu, launch *System Preferences* and open the **Accounts** pane. Click on the **Login Items** button in the top-right of the panel, next to the **Password** button. It's here you can edit your list of login applications. You can even have them open as hidden items, which is useful for things that run in the background.

This tutorial has been done using Snow Leopard, but it works just as well for Panther, Tiger and Leopard systems too So, launch *System Preferences* and get ready to take control of your Mac and decide exactly what happens when you boot-up in the morning.

Ian Osborne



These items will open automatically when you log in:

Hide	Item	Kind
☐	iCal	Application
☐	DiskAid	Application
☐	iChat	Application
☐	iTunes	Application
☐	Mail	Application
☐	Safari	Application
☐	Stickies	Application
☐	Activity Monitor	Application
☑	WDDriveManagerStatusMenu (All	Application

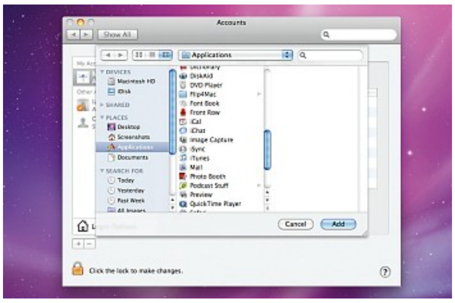
To hide an application when you log in, select the checkbox in the Hide column next to the application.

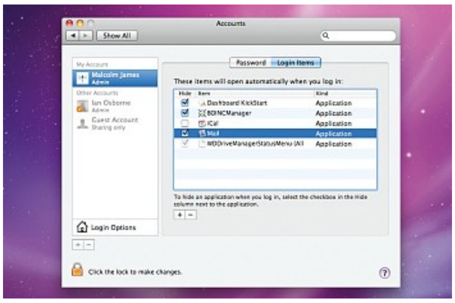
Click the lock to make changes.

You can have as many login items as you like, but too many slows the boot-up time.

> "With this tutorial, you can set programs to launch automatically. Files and folders can be set as login items"

» HOW TO / Define an app as a login item





01 Open at login

In *System Preferences* click **Accounts** then **Login items**. Click the + button. Navigate to the application, file or folder you want to lauch at start up, and press the **Add** button. That app is then added to your login items list, and will open by default every time you log in.

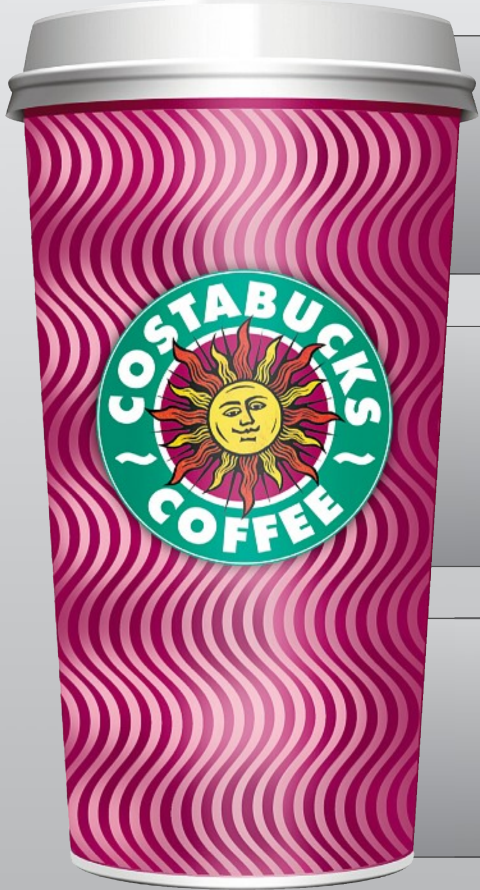
02 Hiding and removing

If you want to open an application at login, but keep it hidden until you need to use it, you can open it on login as a hidden item by ticking its checkbox. You can also remove items from the login list by highlighting them and pressing the - button.

03 From the Dock

When an application is in the Dock, you can set it as a login item by right- or ctrl-clicking its icon and selecting **Open at Login** (from the **Options** sub-menu in Snow Leopard). This is the case whether the app is a permanent Dock item or is there because it's running. ●

For the price of your morning coffee, you could lease...



1 x Apple Mac Pro

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Single 2.66GHz Quad-Core CPU featuring Intel 'Nehalen' technology, 640GB HDD, 4GB Ram, GT120-512MB graphics.

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Adobe CS4 Design Standard.

Produce richly expressive work in print, web, interactive, video, audio, and mobile.

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The most powerful production suite available.

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DEVELOPERS UNITE,
PROGRAMMERS
BREAK
FREE

Illustration by Dave Curd

THE APP STORE

Teething problems or Apple's biggest PR disaster? **Craig Grannell** investigates what is going on with the App Store…

The App Store is regarded as a triumph: billions of downloads, millions of sales, a handful of rags-to-riches tales; and no competitor is close to matching Apple's user-friendly, app-rich environment.

Increasingly, though, dissenting voices suggest all is not well. Reports claim Apple rejects apps for bizarre reasons, and developers find a wall of silence when trying to rectify matters. And some even question the store's low prices, arguing that the flood of cheap, simplistic apps will soon render the App Store unsustainable for serious developers.

Are these complaints hot air, or is Apple about to wrench defeat from the jaws of victory? Of the issues surrounding the App Store, the application submissions policy is most controversial. The App Store is not open – developers submit completed apps, and Apple decides whether to approve them for sale. In theory, this is beneficial, Apple ensuring 'dangerous' apps never go live. In reality, things aren't as clear-cut.

A process of frustration

"The review process is opaque and inconsistent – frustrating at best, completely maddening at worst," argues John Gruber, who's written about the App Store on his blog, Daring Fireball (**http://daringfireball.net**). "A particularly nonsensical rejection," says Gruber, "was eBook reader *Eucalyptus*, which ended up with a 17+ rating, despite downloading content solely from

COИTЯOVEЯSY

the free Project Gutenberg library of out-of-copyright books. It was rejected on the grounds users could download books with 'objectionable content', even though they're just books, nothing objectionable is installed by default, and all Project Gutenberg titles are accessible using *Safari* for iPhone".

Consistency regarding approvals is a key problem. "It hadn't occurred to me rejection was a plausible outcome," says *Eucalyptus* author James Montgomerie, adding that several eReaders were approved before he submitted his own.

Manomio had a similar shock when its Commodore 64 emulator app, called *C64*, was rejected. The company licensed the retro-games system and associated games, and discussions with Apple indicated Manomio's approach was within Apple's expectations. "But reports of arbitrary rejections suggested it's 'luck of the draw' if your application falls on the right desk, you get through unscathed," says Manomio's Stuart Carnie. *C64* wasn't lucky and was rejected. If rejections detailed how a developer could subsequently get an app approved, all would be well, but recommendations are usually brief or nonexistent. Manomio simply got pointed to a clause in the App Store SDK agreement. "But that clause was never intended to block applications like ours, and other apps on the store do similar things to *C64*," argues Carnie. As Apple had "set a precedent", Manomio fought back, and a recent conversation with an Apple director confirmed Manomio's original direction was sound. However, *C64*'s review shows how random approval can be. Unlike developing for most systems, it's not just a gamble whether an app will sell, but whether end-users will get the chance to buy it at all. This could seriously hurt future app development.

> *"The review process is frustrating at its best and completely maddening at its worst"*
> **John Gruber blogs on app approval**

»

8 CLASSIC APP STORE REJECTIONS

1 *Podcaster*, for "duplicating the Podcast section of *iTunes*," despite the fact *iTunes* is desktop software.

2 *South Park*, for being potentially offensive, despite *South Park* itself being available on iTunes.

3 Twitter client *Tweetie*, due to rude trends on the day of the review – trends other clients could access. Approved after resubmission.

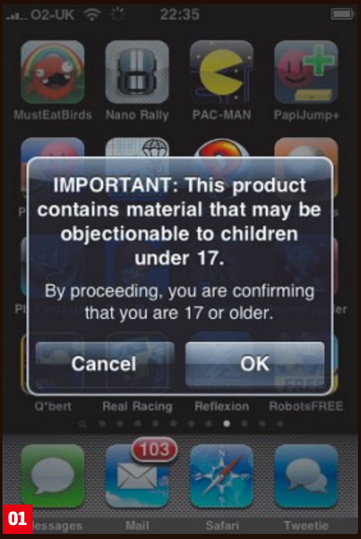
4 *nin: access* for *The Downward Spiral* being in a podcast that can be streamed from the app. Later approved.

5 *Eucalyptus*, for enabling access to the *Kama Sutra* on Project Gutenberg – text accessible by other apps. Resolved with a 17+ rating.

6 *Start Mobile Wallpaper Gallery*, for "ridiculing public figures". It includes the Obama 'Hope' poster, which hangs in the Smithsonian. Later approved via review.

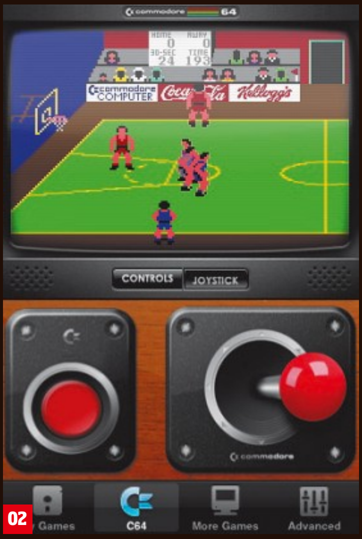
7 *Convertbot*, for having a **Time** icon too similar to Apple's **Recents** icon, despite three approved versions of the app having the same icon.

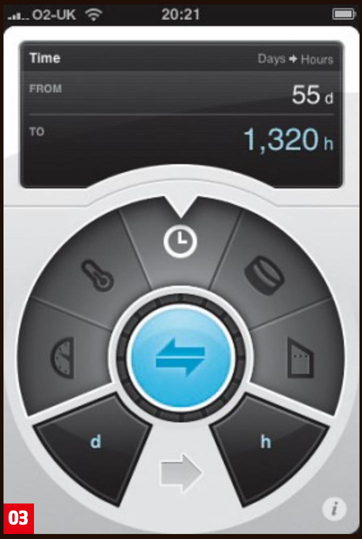
8 Star Trek homage clock *StarTime*, for "resemblance to a well-known third-party mark," despite using no official imagery nor using the phrase 'Star Trek'. Approved with minor changes.



IMPORTANT: This product contains material that may be objectionable to children under 17.

By proceeding, you are confirming that you are 17 or older.



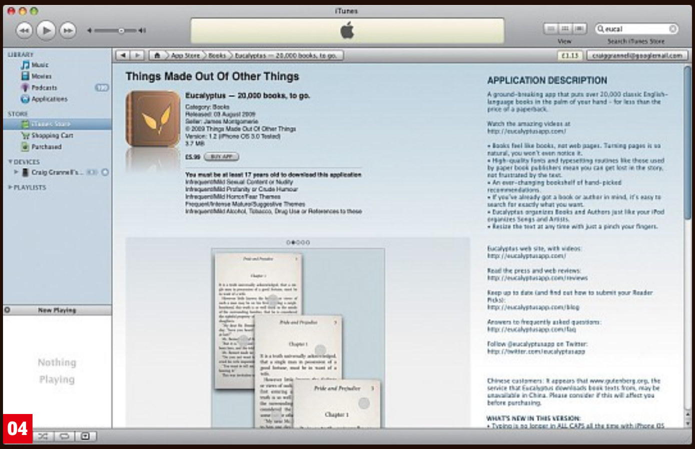


01 **Due to Apple not providing a setting to disable such warnings, this annoying dialog box appears every time you download apps that are rated 17+.**

02 **C64 app was rejected, despite other interpreters being on the App Store.**

03 **Convertbot was rejected due to one of its icons resembling the Recents icon from Apple's Phone app. Three previous versions of Convertbot had the same icon.**

04 **Many developers and users consider Apple's rating system pointless, because it doesn't explain why ratings are given.**



Things Made Out Of Other Things

Eucalyptus — 20,000 books, to go.

Category: Books
Released: 03 August 2009
Seller: James Montgomerie
© 2009 Things Made Out Of Other Things
Version: 1.2 (iPhone OS 3.0 Tested)
3.7 MB

£5.99

You must be at least 17 years old to download this application
Infrequent/Mild Sexual Content or Nudity
Infrequent/Mild Profanity or Crude Humour
Infrequent/Mild Horror/Fear Themes
Frequent/Intense Mature/Suggestive Themes
Infrequent/Mild Alcohol, Tobacco, Drug Use or References to these

APPLICATION DESCRIPTION

A ground-breaking app that puts over 20,000 classic English-language books in the palm of your hand – for less than the price of a paperback.

Watch the amazing videos at http://eucalyptusapp.com/

- Books feel like books, not web pages. Turning pages is so natural, you won't even notice it.
- High-quality fonts and typesetting routines like those used by paper book publishers mean you can get lost in the story, not frustrated by the text.
- An ever-changing bookshelf of hand-picked recommendations.
- If you've already got a book or author in mind, it's easy to search for exactly what you want.
- Eucalyptus organizes Books and Authors just like your iPod organizes Songs and Artists.
- Resize the text at any time with just a pinch your fingers.

Eucalyptus web site, with videos: http://eucalyptusapp.com/

Read the press and web reviews: http://eucalyptusapp.com/reviews

Keep up to date (and find out how to submit your Reader Picks): http://eucalyptusapp.com/blog

Answers to frequently asked questions: http://eucalyptusapp.com/faq

Follow @eucalyptusapp on Twitter: http://twitter.com/eucalyptusapp

Chinese customers: It appears that www.gutenberg.org, the service that Eucalyptus downloads book texts from, may be unavailable in China. Please consider if this will affect you before purchasing.

WHAT'S NEW IN THIS VERSION:

Oddball rejections are the minority, but their frequency is such that some developers worry supporting Apple's platform is risky. Carnie says his experience suggested "the review team has a checklist of dos and don'ts and no room for reasonable judgment". This doesn't bestow confidence in anyone who's worked on an app for months, which is suddenly at the mercy of said reviewers. Without assurances of approval, developers may consider other platforms as safer options.

Awaiting approval

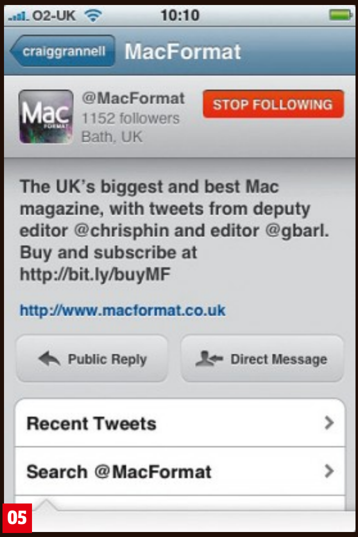
Gruber reckons "Apple should switch to a policy whereby apps are only rejected on the basis of technical compliance. If an app works, uses only published APIs and does what it claims to do, Apple should release it and let the market decide." He thinks that, as with bookshops, subjectivity should largely be removed, benefitting developers and users alike, adding that the current process is strained: "And if the store continues to grow, this will only get worse".

> *"The review team has a checklist of dos and don'ts and no room for reasonable judgment"*
>
> **Stuart Carnie from developer Manomio**

Developers also complain about how long approvals take, and that even minor updates to previously approved apps can be rejected. "Worse, if a critical bug is discovered, you're subjected to the standard review process, without any means to expedite an update," says Carnie. "Sometimes, the developer has to pull the app – they can't even revert to a prior version." To solve this, *Tweetie* author Loren Brichter says Apple should "create a whitelist, enabling proven developers to push out updates faster".

App Store prices are also criticised. At the time of writing, more than half of charting apps were at the lowest price-point, 59p (99¢ in the US). Often, buyers wait for prices to drop and have a warped perception of good value – it's common to see £1.19 games branded a 'rip off', despite similar games on competing systems being 20 times as expensive.

"The rush to 99 cents is fascinating, and in some regards a great experiment in economics – supply and demand," says Gruber. "But there's bias towards the cheapest apps, because of the best-seller lists. Once an app gets there, it tends to stay, due to these lists being where users go to find apps." The result is that few developers make large sums; most don't, even for apps that should be successful.



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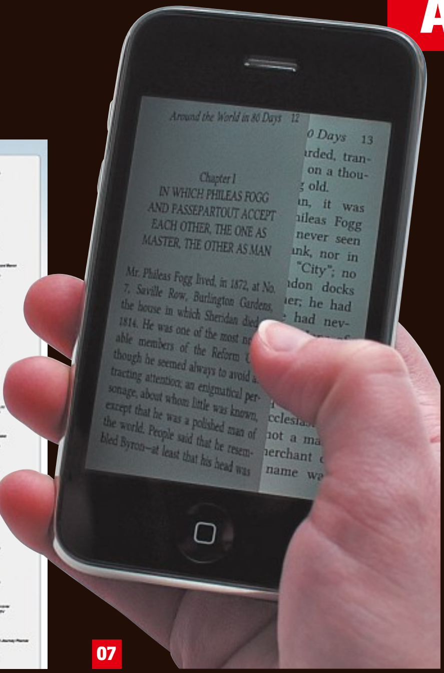
http://www.macformat.co.uk

TOP PAID APPS
06



Developers are split on App Store pricing. Brichter argues *Tweetie*'s doing well, despite free alternatives being available: "And *Things* is $9.99, but successful, so you should just make great apps and not rely on App Store rankings for marketing." Montgomerie is more sympathetic, urging Apple to revisit how apps are presented: "Apple must reduce the expectation that all iPhone software should be cheap. In my childhood, videogames had separate full-price and budget charts. Something similar could work for the App Store."

Apple's ratings system is also considered deficient, its movie-like grading horribly flawed, confusing rather than reassuring. "Parents might want to restrict what children can use, but the system should indicate what an app actually does," says Montgomerie, whose harmless eReader is now rated 17+. "For example, 'allows internet access' is very different to 'Frequent/Intense Mature/Suggestive Themes', and per-app restrictions would be useful – I can see parents being fine with a 13-year-old using *Eucalyptus*, but not allowing access to things like 'Adult Exotic Babes'…"

Overall, though, even those critical of the App Store admit Apple's got most things right. "The experience is excellent. Buying and installing apps isn't just for geeky iPhone users, but for all of them – that's a huge win for Apple," enthuses Gruber. And rejection isn't always all bad – Montgomerie and Brichter noted sales spikes due to the extra publicity, although that's of little consolation to devs with apps that aren't eventually approved, nor anyone making random changes to apps in the hope they'll be accepted.

> *"Apple should create a whitelist, enabling proven developers to push out updates faster…"*
>
> **Loren Brichter tweets his opinion**

Chaos and confusion

There are signs that things are changing. Senior Apple executive Phillip Schiller recently emailed Gruber regarding *Ninjawords* and the App Store in general, noting: "While we may not always be perfect in our execution […], our efforts are always made with the best intentions, and if we err we intend to learn and quickly improve." And from Apple's recent response to the FCC regarding controversy surrounding apps leveraging on Google Voice technology (**http://is.gd/2HVO3**), it's clear Apple's suffering growing pains – apps get as little as six minutes per review and are tested twice. It's no wonder some rejections are asinine.

Montgomerie thinks recent rejections have at least been more outwardly consistent, and Schiller's openness gives cause for hope. However, on the day this article was written, *Convertbot* by Tapbots was rejected for having a **Time** icon that Apple thought too similar to the **Recents** icon in its iPhone app. With a unit conversion app icon and iPhone icon being as dissimilar as they get (making Apple's 'confusion' angle questionable) and three previously approved *Convertbot* releases having the same icon, it's clear the App Store has a long way to go. ●

05 Tweetie was initially rejected because of rude Twitter trends appearing on the day the review was done.

06 Typically, 59p apps dominate the App Store charts. On the day of writing, under a third of top-25 apps were priced higher than 59p.

07 Eucalyptus enables access to Project Gutenberg's collection of out-of-print classic novels. Apple 'suggested' the author up its rating to 17+, despite similar apps having lower ratings and providing access to more modern and racier material.

APP STORE CHANGES WE'D LIKE TO SEE…

1. App ratings indicative of what the apps do, rather than generic terms.
2. Separate charts for budget and full-price apps, to slow the rush to 59p/99c.
3. Expedited, priority reviews for updates that contain critical bug-fixes rather than new features.
4. A setting for disabling warnings regarding downloading content Apple deems 'objectionable'.
5. Apple to stop rejecting apps on the basis that they "duplicate existing functionality".
6. An approvals process that transitions towards removing subjectivity, eventually concentrating solely on halting software that is potentially harmful, illegal or in violation of Apple's agreements with networks…
7. … And if not, a means of developers running app ideas by Apple and getting concepts rubber-stamped, thereby avoiding the risk of working for months on something that gets rejected.
8. The ability for developers to offer upgrades, to make the store more sustainable.
9. Complete consistency regarding rejections and ratings.

Q&A

>> MEET YOUR Q&A EXPERT

Whatever your Mac-related problem, from misbehaving MacBooks to a wireless networks, Luis Villazon can help.

● HINTS & TIPS ● TROUBLESHOOTING ● EXPERT ADVICE ● ESSENTIAL INFO

>> ASK LUIS A QUESTION

Got a problem with your Mac? Then why not send your queries to Luis at **macformat.helpline@futurenet.com** and see if he can help.

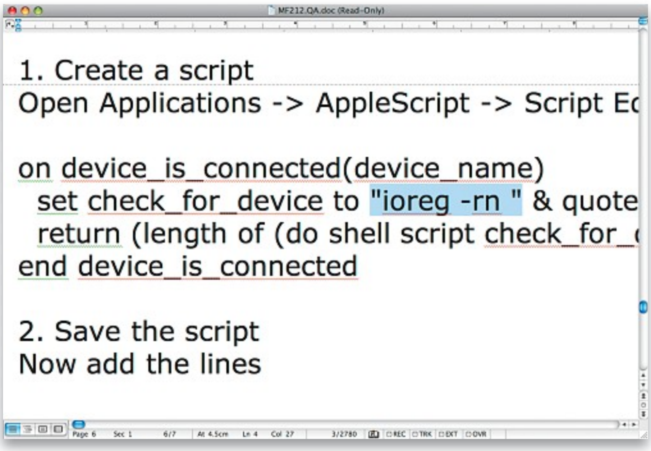
"Can you help with script parameters?"

Q **When I copied and tried to run your AppleScript on page 76 of *MacFormat* issue 212, I got an error message saying that in line 2 "ioreg -m" was not a permitted command. When I changed it to the very similar "ioreg -rn" (Romeo November instead of Mike), the script and the application ran fine.**

I find it very useful because I use an iPod touch, which opens *iPhoto* even though it has no camera and the only images on it are email attachments or web images.

Peter J Large

A The script (which stops *iPhoto* opening automatically when you plug in your iPhone) did appear in the magazine with the switch as "minus R N" but the font used does make it very difficult to distinguish, I agree. If you compare rn (R N) with m (M), and your copy of *MacFormat* is very clean, you'll still probably only see a single dot of ink to distinguish them. We'll bear in mind the possibility for confusion for any future *Terminal* commands.



```
1. Create a script
Open Applications -> AppleScript -> Script Ec

on device_is_connected(device_name)
  set check_for_device to "ioreg -rn " & quote
  return (length of (do shell script check_for_(
end device_is_connected

2. Save the script
Now add the lines
```

As seen in this enlarged view, the original script did specify the switch correctly. It just looks ambiguous on the printed page.

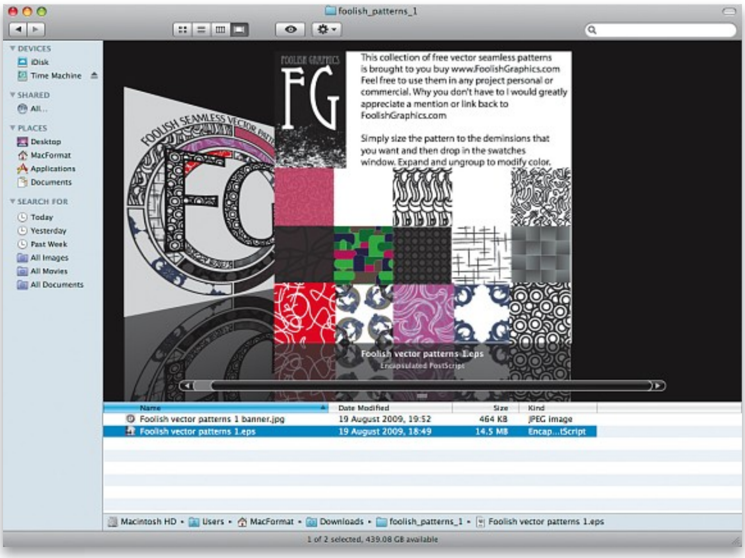
"Why can't I preview EPS files in Leopard?"

Q **Having worked in the print industry on Macs for many years and updated from time to time, I decided to completely revamp my kit and upgrade to Leopard. However, a word of warning for designers dealing with print: I found I couldn't preview EPS icons; this has resulted in me being unable to use *Adobe Bridge*. I've since discovered that the problem is Leopard and, quite simply, the code required to read EPS icons has been left out. So, 20 years' work has to be put aside to run under Tiger on my old machine. If only I'd gone over to a PC, which seems to handle *CS4* EPS icons with no problems.**

I get the impression that Apple no longer supports the printing industry and is concentrating on web design. It's all very well Apple leaping ahead with yet another operating system, but the question must be asked: what has been left out? I still have to run *Photoshop* under *Rosetta* for my scanner!

Tim Reeve

A OS X is built around the PDF document format, not PostScript, so *Preview* must translate EPS files before it displays them and that currently doesn't happen fast enough to make live icon previews viable. That's my guess for its omission, anyway. Worse, I don't think EPS is supported in Snow Leopard either. However, there is a free (well,



This collection of free vector seamless patterns is brought to you buy www.FoolishGraphics.com Feel free to use them in any project personal or commercial. Why you don't have to I would greatly appreciate a mention or link back to FoolishGraphics.com

Simply size the pattern to the deminsions that you want and then drop in the swatches window. Expand and ungroup to modify color.

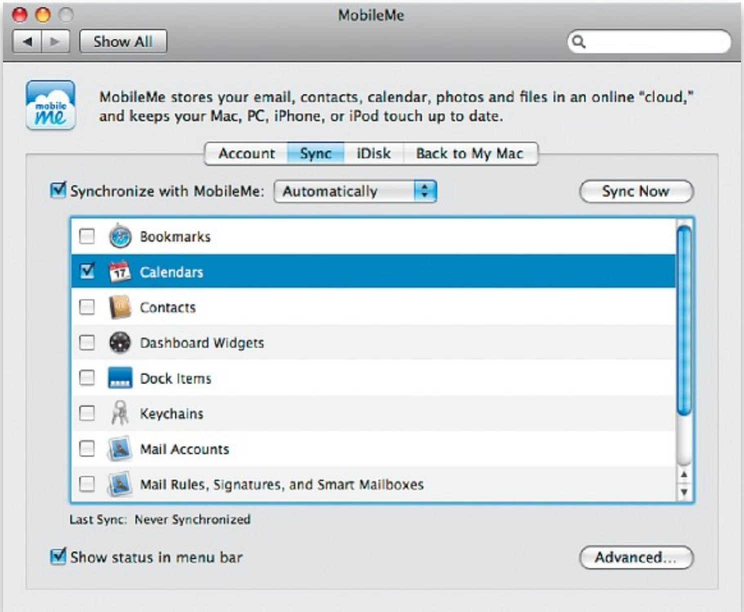
Foolish vector patterns 1.eps
Encapsulated PostScript

Name	Date Modified	Size	Kind
Foolish vector patterns 1 banner.jpg	19 August 2009, 19:52	464 KB	JPEG image
Foolish vector patterns 1.eps	19 August 2009, 18:49	14.5 MB	Encap…tScript

Macintosh HD ▸ Users ▸ MacFormat ▸ Downloads ▸ foolish_patterns_1 ▸ Foolish vector patterns 1.eps

1 of 2 selected, 439.08 GB available

Once the QuickLook plug-in is installed, EPS files will display correctly in Leopard.



MobileMe stores your email, contacts, calendar, photos and files in an online "cloud," and keeps your Mac, PC, iPhone, or iPod touch up to date.

☑ Synchronize with MobileMe: Automatically

☐ Bookmarks
☑ Calendars
☐ Contacts
☐ Dashboard Widgets
☐ Dock Items
☐ Keychains
☐ Mail Accounts
☐ Mail Rules, Signatures, and Smart Mailboxes

Last Sync: Never Synchronized

☑ Show status in menu bar

Synchronising calendars in MobileMe needs specific settings on both your Mac and iPhone.

'donationware') utility called *EPSQuickLookPlugIn*, available from www.eternalstorms.at, which does what it says on the tin.

"Why have my calendars been duplicated?"

Q I'm having problems syncing my MobileMe calendar between my iMac, iPhone 3G and iBook G4. For the last month or so, when I run the *Calendar* app on my iPhone, I get doubles of every appointment I've made. It's as if the phone is sending the new event to MobileMe, then syncing the same event back to the iPhone. I turned off *Calendar* and turned it back on again and this resolved the problem on the iPhone. However, when I check my iMac, none of the events have synced with it, although they are on my iBook.

Dominic Ross

A Data syncing is one of those concepts that's easy to articulate but hard to implement properly. First, double-check that your MobileMe preferences have the Synchronise with MobileMe option checked and set to Automatically. (And also that Calendars is ticked on the list below.) Then check that the preferences in *Calendar* itself have Synchronise my calendars with other computers using MobileMe ticked.

Now on your iPhone, go to Settings > Mails, Contacts, Calendars > .Mac and turn off the MobileMe setting for *Calendars*. This will ask you to confirm whether to keep or delete the synchronising items. Choose Delete to get rid of the duplicates.

"Why can't I display guest singers in iTunes?"

Q I have some songs ripped from my old CDs and some of them aren't sung by only one singer. When I add the featuring singer's name next to the main singer's name in the Artist field in the Get Info section of *iTunes*, *iTunes* assumes the song is sung by another artist. So when I switch to my iPod to list the songs by that main artist, the featured song is under another artist. How should I edit the information of the song in *iTunes* to correct this?

Can Sürmeli

A Probably the most logical solution is to list the album artist as the main artist for that CD and put the featured singer as the artist for just that track. If that doesn't work, treat the album as a compilation with the Grouping field to tie the tracks together, then choose Preferences > Advanced > Group compilations when browsing. Alternatively, just list the guest vocalist in the Comments field.

The 64-bit conundrum

Bill Gallop

Firstly, in order to run anything 64-bit you need to have a 64-bit processor, so that leaves out the Core Duo and Core Solo that were used in the first Intel-based iMacs, Mac minis, MacBooks and MacBook Pros, as well as 64-bit EFI, which leaves out the first Mac Pro and Xserve. The Core Duo and Core Solo are 32-bit processors and so will only run Snow Leopard and other applications in 32-bit mode. This isn't all bad – it means you'll probably have fewer compatibility problems, since you won't need to worry about not being able to use 32-bit plug-ins with 64-bit programs. EFI is how Mac OS X talks to the hardware in your Mac, and if Apple ever release 64-bit EFI updates for the early Xserve and Mac Pro then they'll also be capable of running Snow Leopard in 64-bit mode.

If you have a 64-bit processor you would expect that you're running 64-bit. Wrong again. Within Mac OS X there are lots of layers of software, the lowest being the kernel, which is essentially the heart of Snow Leopard. In Snow Leopard Server the kernel is configured to boot in 64-bit mode, but in regular Snow Leopard it boots 32-bit. Again, this isn't necessarily a bad thing. Servers tend to do a few things and run in a more controlled environment.

> *"Even if your Mac boots a 32-bit kernel, if you have a 64-bit processor you can still take advantage of their benefits"*

A number of programs, plus a lot of hardware, rely on software known as kernel extensions in order to work. A kernel extension needs to be running in the same mode as the kernel, so if you run a 64-bit kernel you also have to have a 64-bit kernel extension. Right now a lot of developers aren't shipping 64-bit code and so if Snow Leopard were to boot in 64-bit a lot of your software or hardware might break. Once you've updated your kernel extensions to 64-bit versions, you can set the kernel to boot 64-bit (**http://support.apple.com/kb/HT3773**).

Even if your Mac boots a 32-bit kernel, if you have a 64-bit processor you can still run 64-bit applications and take advantage of their benefits. However, if you're running a 64-bit application any plug-ins that it uses must also be 64-bit, and these will again need to be updated by developers. You can force a 64-bit app to run as 32-bit via a check-box in the application's **Get Info** window.

Snow Leopard is 64-bit capable on the right hardware, but there are a lot of reasons to run it as 32-bit. Apple has taken the safe option to make it as compatible as possible.

Bill is Mac Solutions Consultant for Equanet (www.equanet.co.uk). Each month he will share his knowledge with you, from upgrading your operating system to the advantages of RAW files.

»QUICK TIP

If you want to leave *iChat* open without people on your friends list seeing that you're online, set your availability to **invisible**. You'll still be able to see when they're online but they won't see you. (If you both do this, the whole system breaks down, of course.)

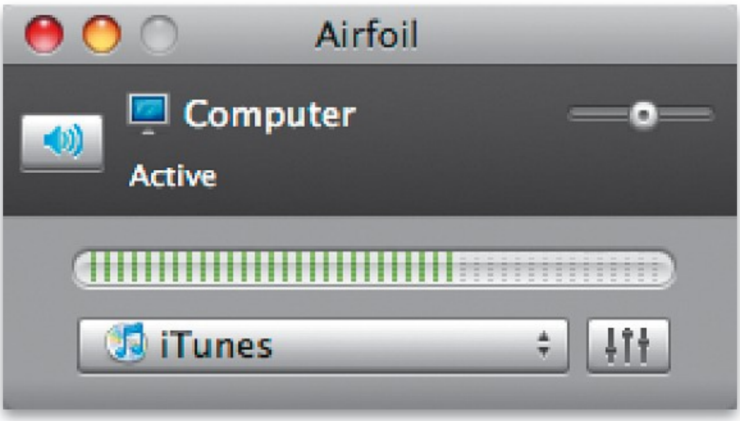
"My photos are rotating by themselves, why?"

Q **I have a G5, a Canon Digital IXUS 850 IS camera and the necessary interlinking software. When taking photos, I vary how I hold the camera from vertical to horizontal, and I put photographic series on disc, where the photos retain their original rotation. However, when the disc is played on my Mac, a show is presented with all photos in the vertical. Yet when I put the same disc into other devices – a disc player connected to a TV screen, for example – the pictures are presented as they were originally shot. Can you point me in the right direction to correct this please?**

Rod Brown

Canon
DIGITAL
IXUS 850 IS
CANON ZOOM LENS 3.8x IS
4.6-17.3mm 1:2.8-5.8
IMAGE STABILIZER

If your iDVD slideshows aren't showing photos in their correct orientation, iPhoto may be at fault.



With AirFoil, you have more control over the volume of domestic audio streams.

A Are you creating a slideshow on disc using *iDVD*? I think there's a bug that auto-rotates portrait orientation photos when you click the button in *iPhoto* to create the slideshow in *iDVD '06*. The workaround is to export the photos from *iPhoto* first. Then either re-import them to *iPhoto* or just import the files directly into *iDVD*.

"Why don't my volume keys work anymore?"

Q **I recently bought an AirPort Express to allow me to position two speakers at the other side of a large room and stream *iTunes* music across from my iMac. What I didn't realise – and this isn't anywhere in the supplied instructions or online – is that when an AirPort Express is configured, it 'splits' the volume control. The F11, F12 and F13 keyboard buttons are rendered ineffective and the only way to alter volume to *AirTunes*-streamed music is to use the volume slider at the top left of the *iTunes* screen, which isn't a good option. The remote is also ineffective, so *Front Row* is crippled.**

So what, in a standard iMac setup, works quite well is altered to something quite inferior. The Apple Store confirmed that "this is the way they work". On the *iTunes* screen, the option is to choose speakers (either computer or remote) – why doesn't the volume control stay the same?

Bruce L Farrar

A I suppose the reason it isn't mentioned in the instructions is because the designers assumed that this was an obvious consequence of using networked speakers. The volume controls on your keyboard (and the Apple Remote) adjust the system volume for that Mac. When you're streaming music to the AirPort Express, your Mac no longer has control of the speakers. In your particular situation, this is annoying, but it's perfectly possible to imagine a circumstance where you might want to have independent control over the volume of the streamed music and the Mac – when the two devices are in different rooms, for example.

Which isn't to say that you're wrong for wanting it the other way around. And luckily there's an answer. *Airfoil* is a $25 (£15) download from www.rogueamoeba.com that's primarily designed to let you stream

»MACFIXIT TIPS / Early OS X 10.6 Snow Leopard issues

Several users have noticed a significant performance issue while using Apple's *Front Row* after upgrading to Mac OS X 10.6 Snow Leopard.

Affected systems exhibit jerky video playback and overall slow and buggy performance. There's an Apple Discussion thread reporting the issue on Mac minis and older generation MacBooks running on shared graphics processors (**http://discussions.apple.com/thread.jspa?threadID=2132473&start=0&tstart=0**), so keep an eye on it.

ASD user Watchful reports: "I just installed Snow Leopard on my Mac mini, which I use as a media centre in my living room. So obviously I use *Front Row* extensively. Imagine my dismay to find out that *Front Row* is now jerky, sometimes won't respond, and, in general, sucks. Videos play back jerky, while the same videos play fine through *QuickTime X* or *QuickTime 7*, and even *iTunes* in full screen."

Several suggestions have been made throughout the growing thread, though none seem to offer a working solution. The Unofficial Apple Weblog (**www.tuaw.com**) has written an article about the *Front Row* issues. The best guess TUAW, the forums, and I could make would be an underlying issue with the way *Front Row* is accessing *QuickTime X* resources.

Be sure to stay tuned to MacFixIt as more on this issue gradually unfolds!

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com

MACFIXIT TIPS / Further reported Snow Leopard issues

Snow Leopard has only been on the shelves for a matter of days, but many MacFixIt readers have written in to express their opinions, issues, and workarounds for Apple's latest operating system update.

Microsoft Office 2008 problems

MacFixIt reader Andy R reports: "Since installing 10.6, I haven't been able to get any *Microsoft Office 2008* program to run. Apps hang on 'Optimizing Font Menu Performance.' I've found no workarounds as of yet. I tried deleting *Office* entirely and reinstalling from scratch, as well as all the usual troubleshooting routines, but to no avail."

If the issue's font-related, try validating your fonts in *Font Book*. Select your entire collection, click File > Validate Fonts. Then remove any fonts that are causing issues.

Fans, third party programs, printers

MacFixIt reader Paul D reports on some initial challenges with Snow Leopard and some fixes he has discovered along the way:

- The fan speeds up a lot more than with Leopard. It seems to take longer to drop speed than the previous OS. Sometimes the speed doesn't drop at all and I have to reboot.
- *Fujitsu ScanSnap Manager* won't save a scan to file. One workaround is to 'email' then drag the PDF of the scan to the Desktop.
- My favourite screensaver, *FreeFall* doesn't work with Snow Leopard. I've contacted the developer and they're recompiling with the added screensaver savings so it will work.
- *SuperDuper!* doesn't work until you copy *fsaclctl* to Snow Leopard from Leopard (it's in **/usr/sbin/fsaclctl**). Fortunately, Shirt Pocket has recently released *SuperDuper 2.6*, which is compatible with Snow Leopard.
- Old printers have completely disappeared. I have an HP LaserJet 4000 with *AppleTalk*. It looks like *AppleTalk* is history, so I've had to do an IP install for this printer to get it to work with Snow Leopard.

Boot volume installation problem

Charles T reports a wider issue where Snow Leopard won't install on the boot volume of his Mac: "I'm having an issue where Snow Leopard refuses to install on my boot volume but has no problems installing on some other attached volumes. The boot volume was formatted by Apple itself and was shipped with the computer just months ago. It's formatted as GUID, is Mac OS Extended Journaled, and is my current 10.5.8 boot volume.

Incorrect time zones

MacFixIt reader Sam reports that the Snow Leopard installation has incorrect time zone information: "The city of Chihuahua (Mexico) is in the wrong time zone. Snow Leopard has it in the Central Time Zone, when it's actually in the Mountain Time Zone. Where does Snow Leopard get the time zone information from? Are there more cities in the same situation?"

MacFixIt
Troubleshooting Solutions for the Macintosh
Tips supplied by MacFixit.com

audio from any application to your AirPort Express speakers. However, it also lets you choose if the volume is set independently or controlled from the streaming Mac.

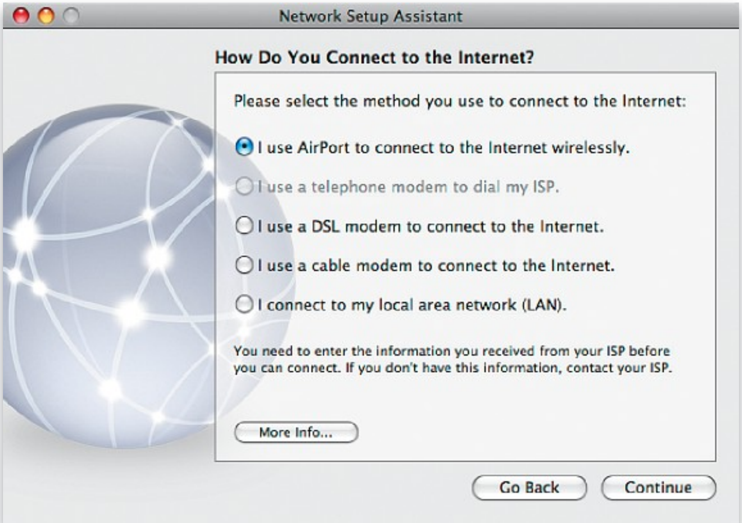
"How do I import and convert video on my iMac?"

Q Being a recent convert to a 2.93GHz iMac, my desire to continue editing films will, I anticipate, involve a steep learning curve when using *Final Cut Express*. I am advised that my previous footage, shot in Standard Definition on my Hard Drive AVCHD Sony SR 11E camcorder, will require conversion before it can be edited in *Final Cut Express*. At age 80-plus, I would welcome a simple explanation of how to do this necessary conversion.

Ted Keen

A AVCHD is a video compression format for tapeless camcorders that uses MPEG-4 for the video and Dolby AC-3 for the audio stream. Because it's highly compressed, playback consumes significant processor time, so *Final Cut Express* converts AVCHD streams into AIC (Apple Intermediate Codec) before you can edit your footage. This happens in the Log and Transfer window, which is in the File menu in *Final Cut Express 4*. When you connect your camcorder to your iMac with a USB or FireWire cable, you'll see all the clips listed, along with thumbnails and durations. You can queue the ones you want to convert and they'll be processed in the background while you're reviewing your other clips.

However, although *Final Cut Express 4* supports AVCHD data streams, it doesn't recognise the MTS files that are created when you save those streams to external storage. In other words, you can import footage directly from your camera but you can't take old footage from a hard disk and import that. At least, not directly. There are third-party conversion utilities that will do it – *Voltaic* (www.shedworx.com), for example, which is available for $34.99 (about £21.50).



How Do You Connect to the Internet?

Please select the method you use to connect to the Internet:

● I use AirPort to connect to the Internet wirelessly.
○ I use a telephone modem to dial my ISP.
○ I use a DSL modem to connect to the Internet.
○ I use a cable modem to connect to the Internet.
○ I connect to my local area network (LAN).

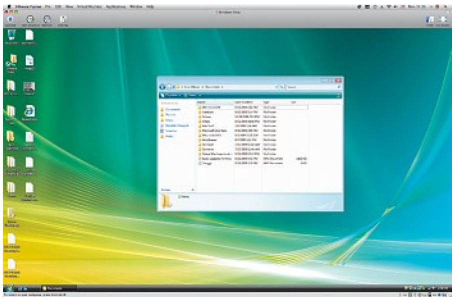
You need to enter the information you received from your ISP before you can connect. If you don't have this information, contact your ISP.

Deleting your network and starting again may be the only way to fix broken preferences.

QUICK TIP

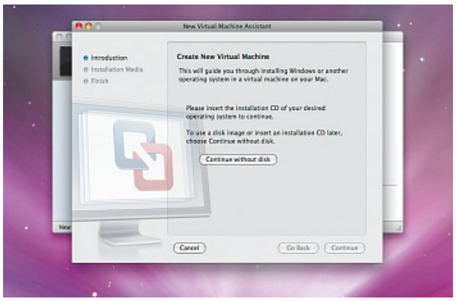
You can use *iChat* to send files that are too big to transfer by email without the hassle of using FTP. Just drag the file into the message area and the recipient will be prompted to accept or reject the transfer.

HOW TO / Run Windows as a virtual machine in VMware Fusion



01 Better than Boot Camp

Boot Camp runs Windows admirably by allocating all your hardware to it to give the best performance, but rebooting into and out of it all the time is annoying if all you need is access to one application. Virtual machine (VM) emulation solves this.



Create New Virtual Machine

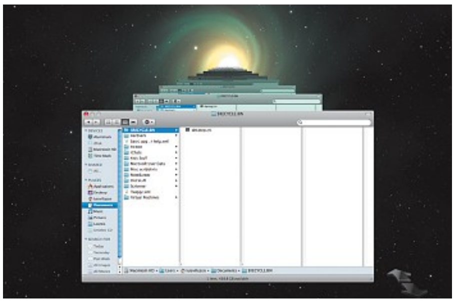
This will guide you through installing Windows or another operating system in a virtual machine on your Mac.

Please insert the installation CD of your desired operating system to continue.

To use a disk image or insert an installation CD later, choose Continue without disk.

02 Windows in a window

You must install a copy of Windows from the original discs the first time you run *VMware Fusion*. You can have the Windows desktop within its own window, or you can use 'unity mode' to have Windows and OS X applications side by side on the Mac desktop.



03 Time Machine runs fine

Because you aren't dual booting between operating systems, there's no need to set aside a separate disk partition. Windows applications can access the same folders as OS X and *Time Machine* will still back them up.

QUICK TIP

If you use the Google search box in *Safari*, the search results will replace the current page by default. But if you hit ⌘+[Enter], instead of just [Enter], the search results open in their own separate browser tab.

"How do I connect my Mac up to wireless internet?"

Q My MacBook Pro is only five days old and yet it won't let me connect wirelessly to my ISP, Virgin Media. I know the connection is working because I'm simultaneously wirelessly connecting via an HP laptop.

My MacBook is running OS X 10.5.7. At first it connected well, but on the third day it stopped recognising the AirPort connection and my password. The AirPort icon at the top of the screen tells me it's connected, but *Network Diagnostics* says it isn't, and no internet pages will load. I've checked the support pages on the Apple site, and it I have a problem that others have had. But, none of the fixes have worked for me. This is my first Mac and I'm not fantastically IT literate, but I can follow instructions!

Janet Marshall

A The AirPort icon is telling you that you have a wireless connection to your broadband router; this is only the first step in the chain that connects you to the internet and it seems as if you have a break somewhere further up the chain. The simplest thing to try first is to turn the router off, count to 30 and turn it back on again. This will flush the routing table and force it to obtain a new IP address from Virgin and hand out a new one to your MacBook Pro.

If that doesn't work, try deleting your network preference files. These are in Macintosh HD > Library > Preferences > System Preferences, and the files are called com.apple.network.identification.plist and NetworkInterfaces.plist. Rename the extension of the existing files to .old, just in case you want to restore them and reboot your MacBook Pro. If your network connection isn't recreated automatically, open System Preferences > Network > Assist Me... > Assistant and work through the setup wizard.

"Why can't I eject the MacFormat cover disc?"

Q I'm having a minor problem with my MacBook (running 10.5.6, bought in March this year) and ejecting cover discs. I can

MACFIXIT TIPS / Old software and Snow Leopard

Snow Leopard and system utilities

If you use a variety of system utilities for cleaning your system, resetting caches, or doing numerous other operations to optimise your Mac, be sure to check with the developer before running them in Snow Leopard once you've installed. Many are system-specific even though the developers may not say so, and they could do more harm than good when run on an unsupported system.

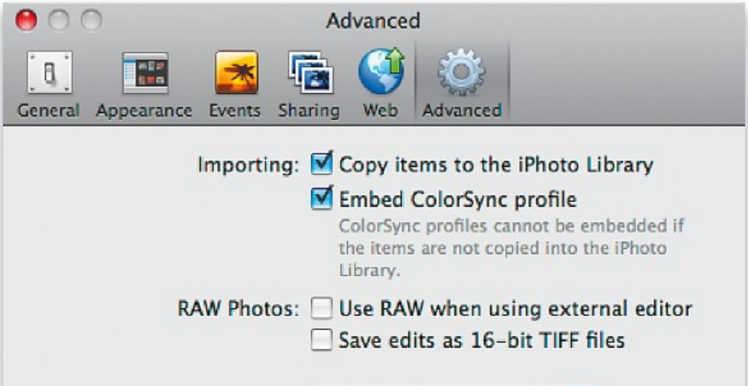
You can search for your utility at **www.versiontracker.com**, and if an update is available after Friday, 28 August, then it will more than likely work; however, double-check that the update specifically mentions it works with "OS X 10.6 Snow Leopard," which should be listed in the "Operating System Requirements" section on the particular VersionTracker page. Additionally, there are links directly to the software developer's site on the utility's VersionTracker page, which you can use to contact the developer for specific information about Snow Leopard compatibility.

Since Snow Leopard's release, many utilities have been updated to versions that work with the new OS, so even if an older version will work fine with 10.6, we recommend that you double-check for updates to ensure full compatibility with your system.

Tips supplied by MacFixit.com

MacFixIt, founded in 1996 by Ted Landau, has grown into the premiere destination for users seeking resolutions to bugs and conflicts. Visit **www.macfixit.com** for the latest Mac information.

MacFixIt
Troubleshooting Solutions for the Macintosh



Importing: ☑ Copy items to the iPhoto Library
☑ Embed ColorSync profile
ColorSync profiles cannot be embedded if the items are not copied into the iPhoto Library.
RAW Photos: ☐ Use RAW when using external editor
☐ Save edits as 16-bit TIFF files
Look up Places: Automatically

There are few situations where you'd want iPhoto not to copy imported photos to its library.

insert the disc, and it will eject; I can insert the disc, open the *Finder* window, and it will eject; I can insert the disc, open a *Finder* window plus run the *MacFormat* disc interface, and it will eject; however, as soon as I download any software, it won't eject.

When trying to eject the disc, I get an error message saying that the disc is in use, and that I should quit open applications. This happens without any applications running or any DMGs mounted. It ejects from my Intel Mac mini and from a Power Mac fine.

Dave Braine

A This is a fairly rare bug in Leopard caused by disk images not releasing correctly even though they've been unmounted. Logging out or rebooting will force them to release, but that's not always convenient. The last time I came across this was in a relatively early version of Leopard. I'm not sure exactly when (or even *if*) it was fixed, but given that we're now up to 10.5.8, you should run *Software Update* to see if it resolves the issue.

"Why do I keep getting a camera connect error?"

Q I have a MacBook running Leopard 10.5.7 with *iPhoto 6.0.5*. Until recently I've had no problem downloading photos from my Nikon D70, but now when I connect the camera I get the message: "The volume for DSC0001.JPG cannot be found. Insert the disc or connect to server volume and wait for it to open on the desktop then try again."

I have tried the camera on another Mac and it downloads as normal. Furthermore, when this message appears it's impossible to close the message or *iPhoto* and I have to Force Quit. If I cancel this message four times it downloads the one picture and I have to do this for every photo.

Peter Ruddle

A I think what has happened is that the Copy items to the iPhoto Library option in iPhoto > Preferences > Advanced has been turned off. If you didn't do this yourself, it's possible that a corrupted plist file may have toggled the setting. When this option is disabled, *iPhoto* will still import links to the image, along with file information and an image thumbnail, but the photo itself is left on the original storage media.

This can be handy when you want to catalogue a large image collection on an external disk, but it's disastrous when you're importing files from a camera. Your Nikon memory card doesn't have the same images as the ones referenced in the *iPhoto* library and so you get an error message asking for them to be connected.

You can turn the setting back on, but unless you have a copy of the photos stored somewhere else, or you can recover them from the memory card with an undelete utility (try Googling for *Cardraider*), then they're gone for good. If you delete the thumbnails from within *iPhoto*, you'll at least stop it complaining that the originals are missing. ●

On the forum

Help and advice from readers

Q I recently upgraded to *iTunes 8.2.1* but it's not able to launch. It keeps on saying "The file iTunes Library cannot be read because it was created by a newer version of iTunes." Can anyone assist please? I've deleted and re-installed *iTunes* five times and still have no luck.

Monyet Joined: 30 Aug 2009 Posts: 4 Location: Bali, Indonesia

A Assuming all your music is still intact in this folder, go to Home > Music > iTunes > iTunes Music, then move the iTunes Library and iTunes Music Library.xml files out of the iTunes folder, launch *iTunes* and it will create a brand-new versions of these. Then check out *iTunes'* Advanced preferences, making sure the following check boxes are ticked: Keep iTunes Music folder organized and Copy files to iTunes Music folder when adding to library.

Then in *iTunes*, go to Add to Library under the File menu and point it to Home > Music > iTunes > iTunes Music, then click the Choose button. This will at least get all your music back into *iTunes*; the downside is you'll lose any playlists you've created – these will need to be recreated again.

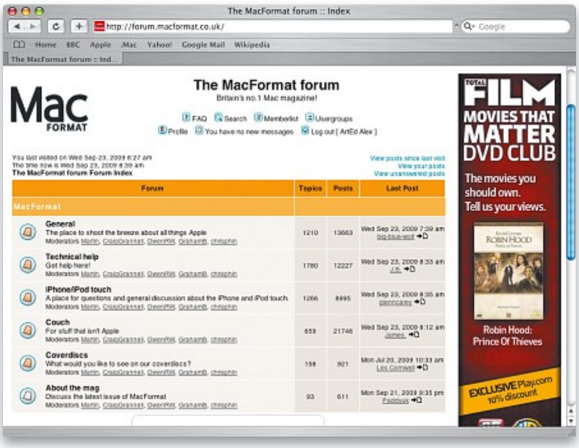
MacOS10 Joined: 20 Oct 2005 Posts: 1,682 Location: Manchester, UK

Q I recently changed over from Windows to Mac and overall I'm quite satisfied, however I'm into genealogy and the software available is limited, so I'd like to install a Windows-based system. Can someone please tell me: if I have *Fusion* do I need *Boot Camp* to operate the two systems?

Megansbob Joined: 07 Jul 2009 Posts: 8

A *Boot Camp* lets you run Windows natively like a regular PC. *Fusion* is an emulator – if you're running Windows via *Fusion*, the Mac OS is still running. Windows acts just like an app, running in a window. This is not as fast as natively running Windows. *Boot Camp* is built-in to Mac OS. It sets up a separate hard disk partition exclusively for Windows.

Future-Echoes Joined: 21 Jun 2003 Posts: 6,917 Location: Essex, UK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"The first thing we noticed after installing Snow Leopard was the speed increase it offers"

OS X 10.6 SNOW LEOPARD FULL REVIEW P82

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Reviews

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Ian Osborne
Reviews Editor

Snow Leopard has been very well received by the Apple faithful, with Mac owners especially impressed by its low price. Yet some still aren't satisfied. Despite getting a new OS for just £25, there have been complaints that because its American price is $29, we Brits are getting a raw deal.

They are, of course, quite wrong. UK prices are quoted with VAT included, but because the rate of sales-tax differs from state to state, US prices are quoted without it. So, to realistically compare the UK and US prices, you must first remove the VAT. This gives a figure of £21.74. If we assume an exchange rate of around $1.58, $29 translates to about £18.35. So yes, we're paying a little more, but given the fluctuating exchange rates and the smaller size of the UK market, a £3.50 price-difference isn't that bad.

Some computing companies regularly price their UK products at an unfair level compared to their US equivalents, but Apple isn't one of them. So let's all enjoy the new OS and save our ammo for the battles worth fighting. And check out our Snow Leopard review on page 82.

>> OUR LOGOS

Mac FORMAT Choice ★★★★★ — A product that receives the MacFormat Choice award is the best in its class when reviewed.

Mac FORMAT Winner! — Used in our Group Tests, MacFormat Winner indicates the product that we feel stands out.

Mac FORMAT On the disc — This logo indicates there are either test versions or files associated with the review on the disc.

RATINGS EXPLAINED: ★★★★★ Excellent ★★★★☆ Very good ★★★☆☆ Good ★★☆☆☆ Adequate ★☆☆☆☆ Poor

>> OPERATING SYSTEM

Mac OS X 10.6 Snow Leopard

£25 Is the latest version of OS X a bargain operating system or an overpriced service pack?

CONTACTS

Developer: Apple, Inc.
www.apple.com/uk
Latest price on TechRadar
www.techradar.com/636015

REQUIREMENTS

Processor: Intel Mac **RAM:** 1GB
Hard disk: at least 5GB space
Other: DVD drive

PROS & CONS

⊕ Spectacularly cheap
⊕ Across-the-board speed increase
⊕ Exchange support
⊕ 64-bit
⊕ Ready for future enhancements
⊖ A few inevitable niggles

VERDICT

★★★★½

"No one running Leopard on an Intel Mac should be without this upgrade, and Tiger users should consider it too."

Snow Leopard is a bold move. When Apple lifted the lid on the next version of OS X, it promised few new features, but a radical overhaul "refining 90% of the more-than 1,000 projects in Mac OS X." Three months later it arrived, to inevitable cries of "it's just a service pack!" from Apple's detractors. But do they have a point? Is Mac OS X 10.6 a phenomenally cheap operating system, or an overpriced service pack that should have been a free download? We put it through its paces to find out.

The first thing we noticed after installing Snow Leopard is the speed increase it offers. We installed the new operating system on four different Macs; an iMac, a MacBook Air, a MacBook Pro and a plain old polycarbonate MacBook. On each machine everything feels snappier and more polished. We had no real complaints about how fast OS X applications such as *Mail*, *iCal* and *Address Book* opened before, but now they appear almost instantly. Your *iPhoto* picture collection and *iTunes* album covers appear much quicker too, instead of blinking in one by one. The difference may be a matter of seconds rather than minutes, but it's amazing how much difference it makes to your day-to-day computing experience.

Mac OS X 10.6 boasts many under-the-hood improvements.

Mac OS X Snow Leopard
The world's most advanced operating system. Finely tuned.
Mac OS X Snow Leopard
Version 10.6

And the speed increase isn't limited to opening applications. The *Finder* has been completely rewritten using Apple's Cocoa programming environment, and takes advantage of Snow Leopard's new technologies, such as 64-bit support. Whether it's as a direct result of this or not, we don't know, but even windows containing thousands of items appear quickly and scroll smoothly. Networks enjoy a speed boost too, with everything being much crisper and more responsive. Starting up your Mac, shutting down again and waking from a sleeping state are all faster than before. For example, our MacBook started up in half the time it did under Leopard, and shut down around 25% faster too. These improvements all greatly enhance the overall user experience.

> *"Our MacBook started up in half the time, and shut down faster too. These improvements greatly enhance the overall user experience"*

Most system applications have been rebuilt or recompiled in 64-bit.

Safari File Edit View History Bookmarks Window Help
MacFormat
Macintosh HD
Mac FORMAT
All your Apple needs
FILM
The movies you should own. Tell us your views.
Find out more
Home Blog Podcast Newsletter Reviews Forum Resellers
>> From the team
Networking made easy
>> MAC NEWS
Address Book
Apple Computer Inc.

Power out

System-wide optimisation and dropping support for PowerPC Macs has facilitated a much smaller footprint for Snow Leopard and its bundled applications; installing the new operating system actually saves you disc space. For example, *Mail* is reduced from 289MB to 77.5MB, with *Address Book* tumbling from 55.3MB to 18.6MB, and *iChat*, *Preview* and *Safari 4* are all around half as space-hungry as before. According to Apple, installing Snow Leopard saves an average of 7GB hard drive space, but when upgrading a well-used Mac it could save even more. Our MacBook's hard drive finished up more than 14GB lighter. Doing a clean install on the iMac, we saved 17GB. However, bear in mind that with Snow Leopard, Apple has changed the way it calculates drive capacities, switching from a binary to a decimal system favoured by hard drive manufacturers, which slightly inflates the space saving. (Note that in our examples above, the first figure is in base two, while the latter is in base 10; for an apples-with-apples comparison, the post-Snow-Leopard install figure should be increased a little.) Despite

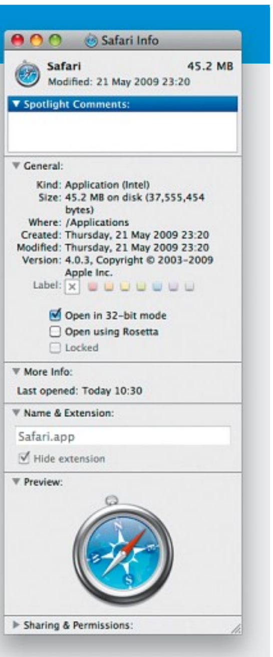
OPERATING SYSTEM / Compatibility issues?

All new operating systems have their problems, but Snow Leopard has suffered fewer than most. We tested it with a variety of hardware and software, and found very little to grumble about. We tried three printers, two of which were recognised straight away, though the brand-new Canon sent for review required a driver download.

Despite early rumours to the contrary, Adobe *Photoshop CS3* works fine, and the latest versions of major apps such as Microsoft *Office* and *QuarkXpress* are fully compatible with Snow Leopard. A few trivial glitches have been found in Adobe *Creative Suite*, but these will probably have been ironed out by the time you read this. Independent developers are working hard to patch problematic software, so it shouldn't be long before all packages report no incompatibility issues whatsoever. For a list of major applications that were known to have issues with Snow Leopard upon its release, see **http://support.apple.com/kb/HT3258**.

The first thing you should do after installing Snow Leopard is to open *Software Update* and upgrade to 10.6.1, which is already available. This patches a security flaw caused by 10.6.0 installing an older, vulnerable version of Adobe *Flash*. Further, Snow Leopard doesn't install *Rosetta* by default, so if you need to run PowerPC-based applications on your system, you'll have to install it manually when prompted.

There are a few other small gripes. *System Preferences* is now a 64-bit application, so if you need to access a preference pane that's still 32-bit, it has to quit and reopen. 32-bit plug-ins won't work within 64-bit applications such as *Safari* and *Address Book*, but if you open the program's information window, you can set it to open in 32-bit mode by ticking a checkbox. **Back to my Mac** is fussier about what it considers to be a UPnP-compatible router too. But these are minor moans. Overall, the transition from OS X 10.5 to 10.6 has been extremely smooth.



Safari 45.2 MB
Modified: 21 May 2009 23:20

Kind: Application (Intel)
Size: 45.2 MB on disk (37,555,454 bytes)
Where: /Applications
Created: Thursday, 21 May 2009 23:20
Modified: Thursday, 21 May 2009 23:20
Version: 4.0.3, Copyright © 2003–2009 Apple Inc.
Label: ☒

☑ Open in 32-bit mode
☐ Open using Rosetta
☐ Locked

Last opened: Today 10:30

Safari.app
☑ Hide extension

Tick the checkbox in a 64-bit application's Info panel to open it in 32-bit mode.

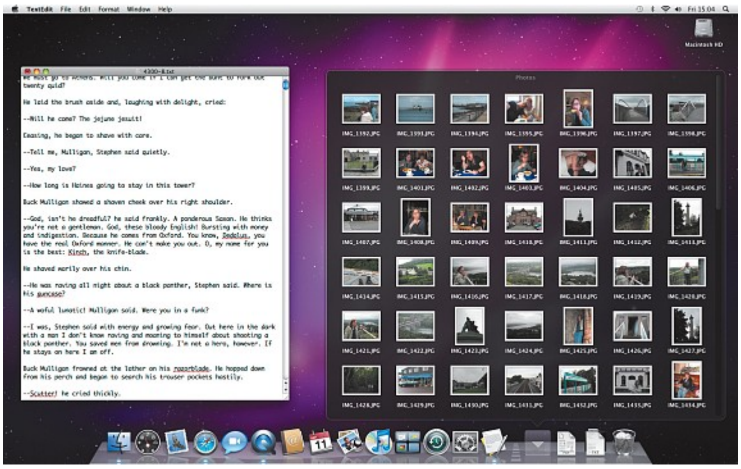
the potential for confusion, a more compact OS is still very welcome.

While Apple isn't making a song and dance about Snow Leopard's new features, you might be pleasantly surprised by what it does offer. Compatibility with *Microsoft Exchange* servers could do much to popularise Macs as business machines. As long as **Autodiscovery** is enabled on your *Exchange* server, it's extremely easy to set up. Just add a new account in *Mail* using your *Exchange* username and password, and *Address Book* and *iCal* are automatically updated too. Your *Exchange* details are kept separate from the local data on your computer, so you can add it to your own Apple notebook without getting personal and work information in a muddle.

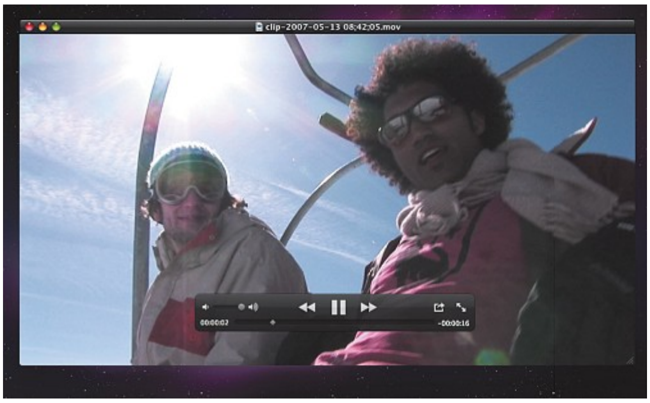
Exposé yourself

Not everyone uses *Exposé*, but if you regularly navigate to open windows by pressing F9, you'll be glad to hear this function has now been integrated with the Dock. Clicking and holding on a Dock icon gives you an *Exposé* screen for that application's windows alone, making it much easier to find what you're looking for when your desktop is busy.

> *"The latest iteration of QuickTime has had a facelift, featuring a new, windowless interface with controls that fade in and out"*



TextEdit now has text substitution, while Stacks windows are scrollable and easier to navigate.



QuickTime X's controls slickly fade out of sight when they aren't being used.

The latest iteration of *QuickTime*, bearing the title *QuickTime X*, has ushered in an overhaul, featuring a new, windowless interface with controls that fade in and out as needed. It can now record audio and/or video through your iSight camera. You can also make screen recordings, which is ideal for creating video tutorials. Saving out your work for playback on Apple TV, iPod/iPhone or your Mac has been greatly simplified, and you can upload to your YouTube or MobileMe account with one click.

This new simplicity is at the expense of flexibility, however. *QuickTime X* lacks the comprehensive export options offered by *QuickTime 7 Pro*, and although you can still trim a movie for length, you can no longer perform cut-and-paste edits on the

Turn the page for more of our in-depth review of Snow Leopard. »

>>DID YOU KNOW THIS?

What about the OS X Server Edition?

As well as the standard retail edition of Mac OS X 10.6: Snow Leopard, there's also a Server edition offering new features such as *Podcast Producer 2*, for automating the creation and publishing of podcasts, and *Mobile Access Server*, giving secure access to firewall-protected network services for iPhone and Mac.

Snow Leopard Server makes several improvements over its predecessor: *Wiki Server 2* improves its online collaboration; *iCal Server 2* includes web-based calendar access, plus the ability to view meeting invitations and details on iPhone; and *NetRestore* offers easy custom image restore over a network.

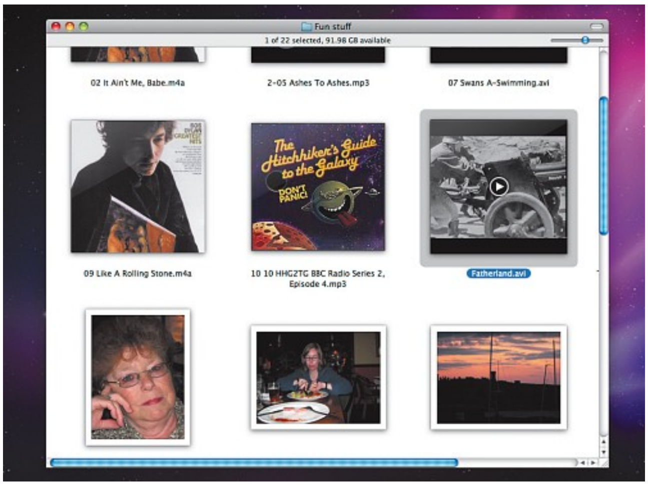
We're reviewing Snow Leopard Server in next month's issue, on sale 11 November 2009.

fly. Thankfully, if you have a Pro key for *QuickTime 7*, the original application is moved intact to your Utilities folder, and even if you don't, you can easily reinstall it from your Snow Leopard disk.

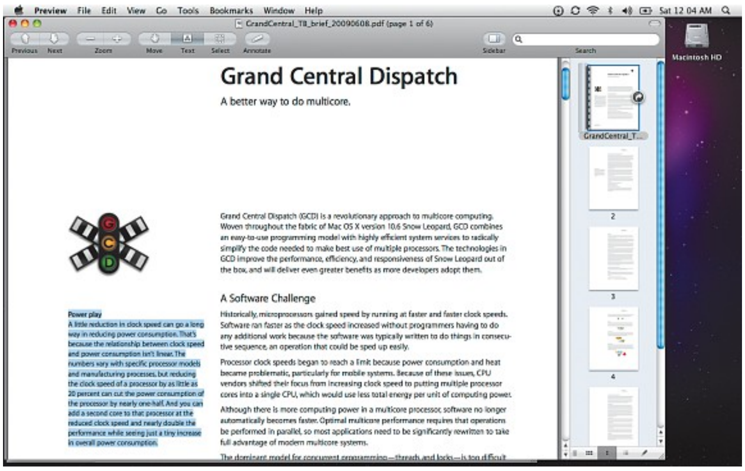
An interesting new *Finder* feature is the ability to preview files via icons. Open a *Finder* window in Icon view and you can boost the icons to a maximum of 512 pixels square, courtesy of a slider. These enlarged icons offer previews of the document they represent, enabling you to play audio and video files, flick through multi-page documents or get a better look at a photo or other pictures. This feature is also great for listening to audio files without opening *QuickTime* or *iTunes*, but it's less useful for images, videos and text documents, as boosting the icons to a serviceable size makes them unwieldy, and is no less effort than using Quick Look. And we do hope the next upgrade adds a 'reset to default size' button next to the slider.

Minor tweaks

There are lots of minor upgrades and enhancements too. In *Preview*, you can copy a specific portion of text from a PDF that's laid out in columns. Stacks is more functional, with Grid-view windows that can be scrolled where necessary and folders that open within Stacks instead of *Finder*. If a disc won't eject because there's a file open, you're now told which app is stopping it. Elsewhere, *TextEdit* offers text substitution, while *iChat Theatre* offers 640x480-resolution images and printer drivers are updated automatically. Obviously we don't have room to list every minor tweak and polish here, but take a look at Apple's website and our feature starting on page 26 for a more comprehensive list.


Fun stuff
1 of 22 selected, 91.98 GB available
02 It Ain't Me, Babe.m4a
2-05 Ashes To Ashes.mp3
07 Swans A-Swimming.avi
09 Like A Rolling Stone.m4a
10 10 HHG2TG BBC Radio Series 2, Episode 4.mp3
Fatherland.avi

You can now magnify icons to up to 512x512 pixels, and use them to preview video, audio and documents on the fly.


Preview File Edit View Go Tools Bookmarks Window Help
Sat 12 04 AM
Previous Next Zoom Move Text Select Annotate Sidebar Search
Macintosh HD
GrandCentral_T...
2
3
4

CrandCentral_TB_brief_20090608.pdf (page 1 of 6)

Grand Central Dispatch

A better way to do multicore.

Grand Central Dispatch (GCD) is a revolutionary approach to multicore computing. Woven throughout the fabric of Mac OS X version 10.6 Snow Leopard, GCD combines an easy-to-use programming model with highly efficient system services to radically simplify the code needed to make best use of multiple processors. The technologies in GCD improve the performance, efficiency, and responsiveness of Snow Leopard out of the box, and will deliver even greater benefits as more developers adopt them.

Power play

A little reduction in clock speed can go a long way in reducing power consumption. That's because the relationship between clock speed and power consumption isn't linear. The numbers vary with specific processor models and manufacturing processes, but reducing the clock speed of a processor by as little as 20 percent can cut the power consumption of the processor by nearly one-half. And you can add a second core to that processor at the reduced clock speed and nearly double the performance while seeing just a tiny increase in overall power consumption.

A Software Challenge

Historically, microprocessors gained speed by running at faster and faster clock speeds. Software ran faster as the clock speed increased without programmers having to do any additional work because the software was typically written to do things in consecutive sequence, an operation that could be sped up easily.

Processor clock speeds began to reach a limit because power consumption and heat became problematic, particularly for mobile systems. Because of these issues, CPU vendors shifted their focus from increasing clock speed to putting multiple processor cores into a single CPU, which would use less total energy per unit of computing power.

Although there is more computing power in a multicore processor, software no longer automatically becomes faster. Optimal multicore performance requires that operations be performed in parallel, so most applications need to be significantly rewritten to take full advantage of modern multicore systems.

The dominant model for concurrent programming—threads and locks—is too difficult

When viewing PDFs in Preview, you can now select text laid out in columns.

It should be noted that the most important – and impressive – part of Snow Leopard is not what it does now, but what it makes possible in the future. The under-the-hood advances also pave the way for some incredible technological leaps forward, as developers take advantage of them with future releases of their software.

Snow Leopard is 64-bit, the real-world advantage of which is to do with RAM. You can install up to 32GB of memory on today's Macs, but 32-bit applications can only access 4GB of RAM at a time. A 64-bit application can address a theoretical maximum of 16 billon gigabytes. And the more memory it has available, the faster it can work.

Grand Central Dispatch (GCD) is an important new technology that makes it easier for developers to optimise their applications for multicore processors. Thread management is handled by the operating system rather than the applications themselves, so GCD-enabled programs can automatically distribute their work across all available cores for increased performance. Rewriting applications to take advantage of multicore processors is a tricky, time-consuming task that's frequently neglected by developers. Fortunately, the introduction of GCD makes it relatively simple, so hopefully more and more apps will take advantage of the extra power offered by multicore Macs.

OpenCL, or Open Computing Language, enables applications to harness the power of your Mac's graphics processor. According to Apple, with OpenCL sophisticated financial-modelling techniques can be incorporated into accounting and finance software, media applications can reclaim unused GPU processes to perform complex, intensive operations and games can have more realistic physics simulations. Again, this feature will come into its own as developers take advantage of it.

> *"Snow Leopard is 64-bit, enabling software to take advantage of as much RAM as you can stuff into your Mac for years to come"*

Those who claim Snow Leopard is a glorified service pack are simply wrong, and complaints about its comparatively small number of new features miss the point. Minor refinements to the user interface disguise major changes under the hood. On an average Mac, upgrading from 10.5 to 10.6 feels like getting out of a perfectly acceptable family saloon and climbing into a sports car, though it might make little difference if you have a very fast processor. Even so, it's still worth upgrading for the incredible advances made possible as developers begin to use its new technologies such as Grand Central Despatch and OpenCL. The best is surely yet to come.

Ian Osborne

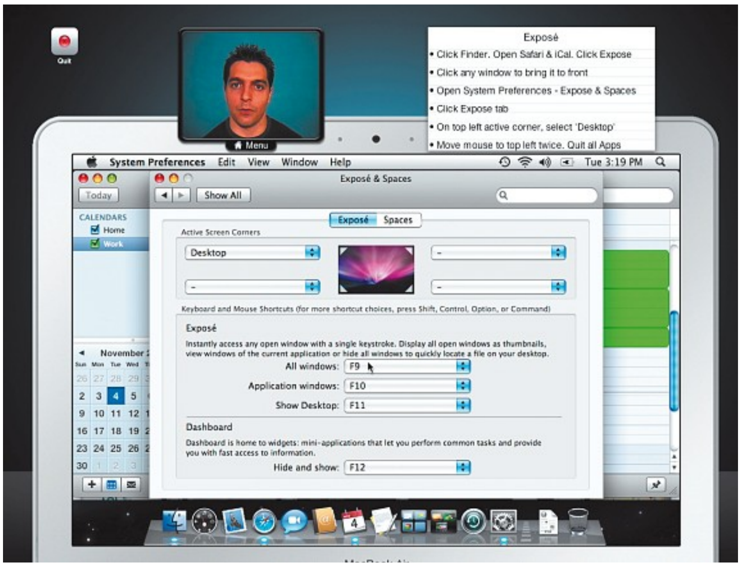
>> VIRTUALISATION UTILITY AND TUTORIALS BUNDLE

Parallels Switch to Mac Edition

£74.99 Everything you need to switch from Windows… in a box

Since shortly after the arrival of Intel Macs, it's been fisticuffs at dawn for Parallels and VMware, with each company claiming to have the best virtualisation product. With Parallels' *Desktop 4.0 Switch to Mac Edition*, they throw a curveball – rather than this pseudo-update offering new features within the main application, it bundles in a single box everything a Windows user might need to switch to a Mac.

The bundle comprises three main components: tools for switching, tutorials for switchers, and *Parallels Desktop* itself. The last of those things is largely the same application we reviewed in issue 204 of *MacFormat*, but with improved performance and stability. It's a good solution for running Windows in a window (and, during testing, seemed fine on Snow Leopard), with excellent device support, although we still think *VMware Fusion* is a more Mac-like app. That said, it has less of an edge than it could boast 10 months ago.



Exposé
- Click Finder. Open Safari & iCal. Click Expose
- Click any window to bring it to front
- Open System Preferences - Expose & Spaces
- Click Expose tab
- On top left active corner, select 'Desktop'
- Move mouse to top left twice. Quit all Apps

Exposé & Spaces

Active Screen Corners: Desktop

Keyboard and Mouse Shortcuts (for more shortcut choices, press Shift, Control, Option, or Command)

Exposé

Instantly access any open window with a single keystroke. Display all open windows as thumbnails, view windows of the current application or hide all windows to quickly locate a file on your desktop.

All windows: F9

Application windows: F10

Show Desktop: F11

Dashboard

Dashboard is home to widgets: mini-applications that let you perform common tasks and provide you with fast access to information.

Hide and show: F12

The main pull with Switch to Mac is its collection of interactive tutorials.

Switching to Mac

But do the other elements within *Switch to Mac Edition* enable *Parallels* to grab the lead? Migration comes in the form of a bundled high-speed USB cable and *Transporter* software, which makes it relatively painless to clone an existing PC to a virtual drive. However, it's worth noting that this might breach Microsoft's EULA for OEM copies of Windows; Parallels suggests checking with your PC manufacturer and Microsoft, and reading the OEM Windows Migration document in the support section of Parallels' website, before trying this type of migration.

> *"Learn your Mac aims to get Windows users up to speed with Mac terminology, teaching the basics of Finder and other Mac apps"*

The *Switch to Mac Edition* video tutorials come with no such concerns. Taking the form of *Learn your Mac* – a whopping half-gig *Flash* application – this aims to get Windows users up to speed with Mac terminology, teaching the basics of *Finder* and a handful of important Mac apps. The tutorials are universally friendly and extremely straightforward, and direct comparisons between Windows and Mac equivalents are made throughout. The interface is functional enough, given that it's trying to ape a complex operating system, but the tutorials occasionally prove slightly suspect when it comes to typos and Mac terminology.

Useful but limited

We understand what Parallels is trying to do. This box is an all-in-one solution, comprising quality software, reasonable tutorials and excellent documentation – all for the price of its rival (or its own standard version) plus a decent book on Mac OS X. However, we wish the videos had been braver and proved more integrative, encouraging a fuller transition to Mac's operating system, rather than the effective lock-in of having users mostly work with a PC within a Mac.

We also question the cost of this solution. Had Parallels decided to more aggressively price *Switch to Mac*, it would have undoubtedly gained a competitive advantage and probably got the nod from us. As it stands, a decent book might lack interaction, but will potentially be more encompassing than *Learn your Mac*; in tandem with *VMware Fusion*, this might prove better value in the long run than this box from Parallels.

Craig Grannell

CONTACTS

Developer: Parallels

www.parallels.com/uk

Latest price on TechRadar

www.techradar.com/637092

REQUIREMENTS

Processor: Intel Mac **RAM:** 1GB

OS: Mac OS X 10.4.11 or later

PROS & CONS

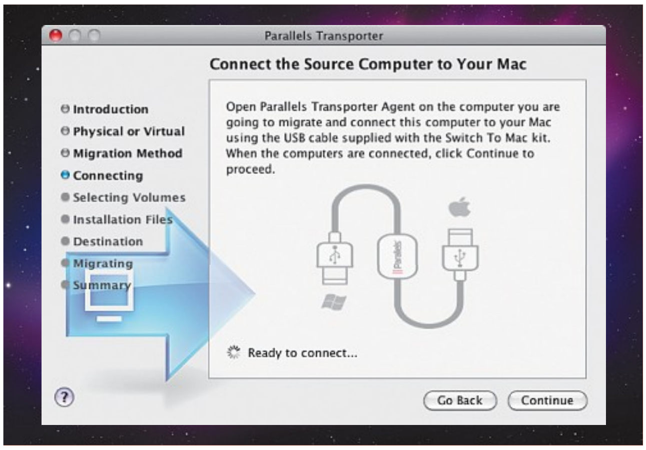
- ⊕ All-in-one solution
- ⊕ Parallels Desktop is pretty good
- ⊕ Videos useful for Mac newbies...
- ⊖ ...Despite some shortcomings
- ⊖ Fusion's still better for VMs
- ⊖ Designed as a lock-in

VERDICT

★★★½☆

"Convenient and fairly impressive, but a bit pricey and not far enough ahead of the competition to make it a must-buy."

Parallels Transporter and the bundled cable enable you to transfer data between computers.



Parallels Transporter

Connect the Source Computer to Your Mac

Open Parallels Transporter Agent on the computer you are going to migrate and connect this computer to your Mac using the USB cable supplied with the Switch To Mac kit. When the computers are connected, click Continue to proceed.

Ready to connect...

>> OCR APPLICATION

Harlequin Computer Solutions VelOCRaptor

$29 (£18) A wacky name and some neat ideas don't make up for poor recognition

CONTACTS

Manufacturer: Harlequin Computer Solutions
www.velocraptor.com
Latest price on TechRadar
www.techradar.com/636127

REQUIREMENTS

OS: Mac OS X 10.5 only

PROS & CONS

- ⊕ Simple-to-use interface
- ⊕ Future versions hold promise
- ⊖ Text recognition too unreliable
- ⊖ Patchy help

VERDICT

★★⯪☆☆

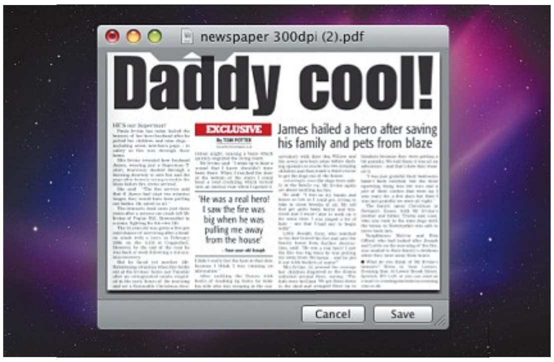
"VelOCRaptor's a worthy project, but for now it's too choosy to be an everyday practical aid."

While the wisdom of naming an application after an unfriendly dinosaur may be questioned, *VelOCRaptor* is an interesting project. Based on the OCRopus engine developed for Google Book Search, it's a simple drag-and-drop tool that the makers acknowledge is a "work in progress". You can even use its website to vote on the new features you'd most like.

In other words, this software doesn't claim to be your all-powerful OCR (Optical Character Recognition) tool, which is probably a good thing, because in our tests it didn't emerge as terribly powerful. It converts scanned images to PDFs; you then copy any text it has recognised out of the PDF, or from within the app itself. Unfortunately, results are very mixed, even at the 300dpi resolution that the producers recommend.

With our most complex document – a newspaper page – *VelOCRaptor* scored reasonably on textual accuracy, but the multi-column layout was completely lost in the transition to PDF format.

With a page of an old book, there were so many mis-recognised characters that the output was useless. And with a PDF document, *VelOCRaptor* perversely converted the text within an embedded image fine, but turned the text itself – selectable in the original – into an image!



James hailed a hero after saving his family and pets from blaze

'He was a real hero! I saw the fire was big when he was pulling me away from the house'

VelOCRaptor readily converts source documents to PDF.

VelOCRaptor only works with Mac OS X 10.5; as *MacFormat* went to press, it wouldn't play with Snow Leopard either. *VelOCRaptor* shows promise, but further evolution is sorely needed.

Barnaby Page

>> OCR APPLICATION

ABBYY FineReader Express 8.0

£89 Software that takes most of the pain out of converting scans or grabs to text

CONTACTS

Manufacturer: ABBYY
www.abbyy.com
Latest price on TechRadar
www.techradar.com/636156

REQUIREMENTS

RAM: 256MB **OS:** Mac OS X 10.4 or later **Hard disk:** 1GB space

PROS & CONS

- ⊕ Generally accurate recognition
- ⊕ Various export formats
- ⊕ Clear, useful help and tips
- ⊖ Poor results with TIFF files

VERDICT

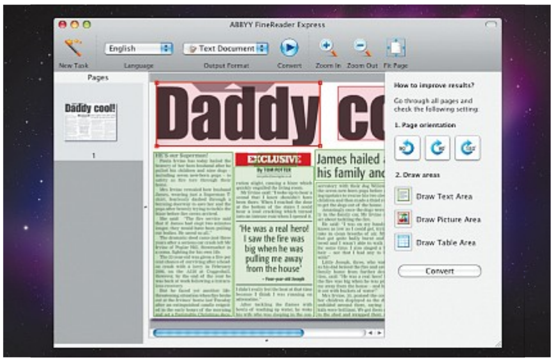
★★★★☆

"It's not cheap, and no OCR app is perfect, but it does a good enough job to justify investment."

Nobody loves doing OCR: it's just a chore that obviates the need for an even more tedious one. So the ideal tool is an app that accepts multiple image formats – scans, screen grabs, PDFs – without complaint, doesn't require you to perform gymnastics with a complex interface, and delivers accurate results in a usable format. On most of these counts, *FineReader* scores.

FineReader copes adequately with extracting text from harder-to-decipher files, too. Given a JPEG of a page from a 19th-century book, it made about half a dozen errors in 300 words – certainly preferable to re-typing it from scratch.

Presented with a complex newspaper page in JPEG format, *FineReader* made a few mistakes. However, its conversion to HTML was pretty good, and oddly its text recognition was better when converting to PDF. But *FineReader's* performance with TIFF images was so poor as to be effectively useless. (We tested it with the same image saved into different formats, and it was just TIFF that caused problems; happily, exporting TIFFs to something else – even just using *Preview* – meant that *FineReader* coped fine. We asked ABBYY why, but didn't get an answer before we went to press.)



'He was a real hero! I saw the fire was big when he was pulling me away from the house'

Tell FineReader which areas are text in a document to improve accuracy.

Still, that might be a relatively minor issue to circumvent. There's also good help and solid multi-lingual support.

Its price means that *FineReader* isn't a casual buy, but for those who use OCR regularly, it'll make the chore a little less miserable.

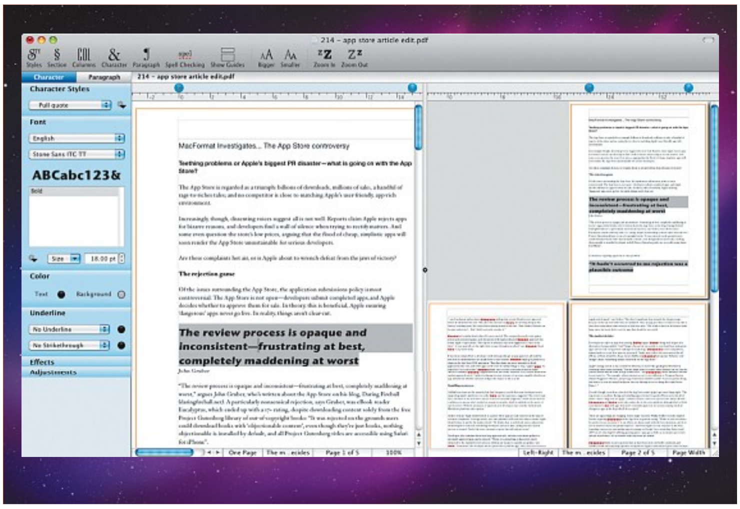
Barnaby Page

>> WORD PROCESSOR

Cocomot Pagehand 1.0.6

$50 (£31) Can this quirky newcomer rival Pages and Nisus Writer?

Although Mac OS X doesn't have the 'luxury' of 50 billion word processors, it does have a handful of very good ones. *Nisus Writer* (both in *Pro* and *Express* flavours) and *Pages* are *MacFormat* favourites, and *Scrivener* and *WriteRoom* are fantastic tools for bashing out text prior to formatting. Therefore, anything new in this space needs to be seriously good and perhaps offer something unique and exciting to retain our attention.



214 – app store article edit.pdf

MacFormat investigates... The App Store controversy

Teething problems or Apple's biggest PR disaster—what is going on with the App Store?

The rejection game

The review process is opaque and inconsistent—frustrating at best, completely maddening at worst

Styles
Section
Columns
Character
Paragraph
Spell Checking
Show Guides
Bigger
Smaller
Zoom In
Zoom Out
Character Styles
Pull quote
Font
English
Stone Sans ITC TT
ABCabc123&
Size
18.00 pt
Color
Text
Background
Underline
No Underline
No Strikethrough
Effects
Adjustments
One Page
Page 1 of 5
100%
Left-Right
Page 2 of 5
Page Width

Pagehand's split-pane view is one of its best features, providing multiple views of a document.

Quirky hands

Pagehand somewhat fumbles the ball and comes across as a mixed bag. The developer calls his creation "an elegant little word processor," but although we found it usable, we'd sooner describe *Pagehand's* interface and workflow as 'quirky'. That said, it's clear that plenty of thought has gone into the application: you can show multiple views of a document via excellent split-pane options; tabs enable you to work on several documents without windows peppering your screen; installed fonts are available as a huge list or in handy groups; and the interface aims to ensure your work is never covered by dialogs. In some cases, these things are done in a somewhat jarring way – for example, click the **Columns** toolbar button and its options replace the existing toolbar until you click your document content again; and although document tabs are arranged in a manner similar to *Safari*, *Pagehand's* interface isn't nearly as smooth. Generally, though, the app feels pleasant – if odd – to work with.

As for the creation of content, *Pagehand* is hit and miss. General text editing is fine, and the application has a fairly robust styles editor and import system. It also supports columns, tables and document sections, and it's helpful when it comes to more specialised typography, making it straightforward to adjust hyphenation, ligatures and smart quotes. However, we felt somewhat restricted by a general lack of versatility in the way *Pagehand* deals with imagery and text flow, and the omission of a live word and character count is irksome.

> *"We're not convinced by one of the developer's main arguments for buying Pagehand: its use of PDF as file format"*

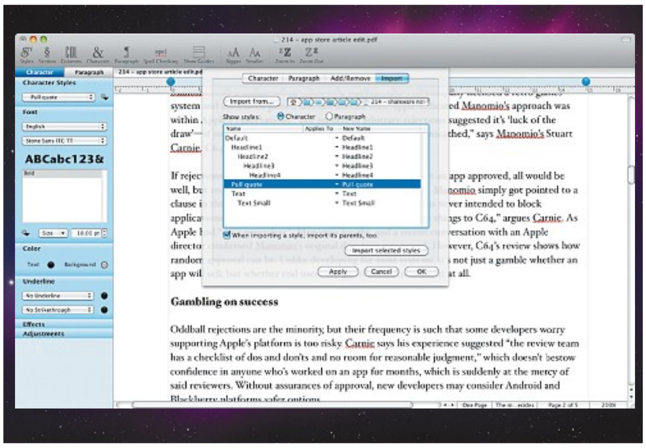
We're also not convinced by one of the developer's main arguments for buying *Pagehand*: the use of PDF as its file format. There's a certain untested logic to this, and we get the theory – PDF is near-ubiquitous, therefore if you send someone a document created in *Pagehand* then they'll probably be able to read it. However, any Mac OS X app can print to PDF, and *Pagehand* documents can't be easily edited elsewhere; worse, PDFs from *Pagehand* revised in the likes of *Acrobat* can't then be opened again in *Pagehand*. For collaboration, export options are available (to DOCX, RTF and so on), but you then lose your document hierarchy information (although *Pagehand* exports are at least fairly accurate regarding the visual appearance of your text).

Not quite there

It's a shame to be so negative about *Pagehand*, because the more we worked with the program, the more little things we found to like about it. However, this release just has too many omissions and problems for it to pick up a recommendation. In its present incarnation *Pagehand* feels unfinished, and against the likes of *Nisus Writer Express* (which is five dollars cheaper) it doesn't strike us as particularly great value for money.

Craig Grannell

Pagehand enables you to import certain styles from other documents.



214 – app store article edit.pdf

☑ When importing a style, import its parents, too.

Gambling on success

Oddball rejections are the minority, but their frequency is such that some developers worry supporting Apple's platform is too risky. Carnie says his experience suggested "the review team has a checklist of dos and don'ts and no room for reasonable judgment," which doesn't bestow confidence in anyone who's worked on an app for months, which is suddenly at the mercy of said reviewers. Without assurances of approval, new developers may consider Android and Blackberry platforms safer options.

Character
Paragraph
Add/Remove
Import
Import from...
Show styles:
● Character
○ Paragraph
Name
Applies To
New Name
Default
Headline1
Headline2
Headline3
Headline4
Pull quote
Text
Text Small
Import selected styles
Apply
Cancel
OK
ABCabc123&
One Page
Page 2 of 5

CONTACT INFO

Manufacturer: Cocomot
http://pagehand.com
Latest price on TechRadar
www.techradar.com/636167

REQUIREMENTS

OS: Mac OS X 10.5 or better (including Snow Leopard)

PROS & CONS

- ⊕ Genuinely trying something
- ⊕ Largely successful interface
- ⊕ Strong styles capabilities
- ⊖ Can't edit non-Pagehand PDFs
- ⊖ Lacking important features
- ⊖ Currently not great value

VERDICT

★★½☆☆

"Full marks for trying something different, but Pagehand lacks the features to match industry leaders."

»ON THE DISC You can find all these programs on the disc.

»VIRTUAL HOSTS CONFIG TOOL

VirtualHostX 2.0.4

Mac FORMAT Choice ★★★★★

$19 (£12) Make setting up and hosting multiple sites on your Mac a breeze

CONTACTS

Developer: Tyler Hall
www.clickontyler.com
Latest price on TechRadar
www.techradar.com/631514

REQUIREMENTS

OS: Mac OS X 10.5 or later

PROS & CONS

- ⊕ Extremely easy to use
- ⊕ Enables backup and restore
- ⊕ Shares hosts with other users
- ⊕ Works with MAMP

VERDICT

★★★★★

"Pretty much an essential purchase for any serious Mac-based web designer."

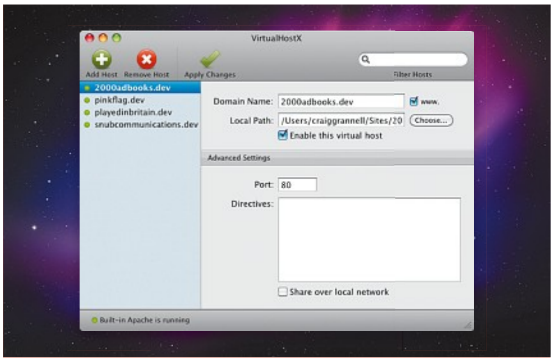
Mac OS X includes a built-in web server, but it only enables you to host and test a single website. Although technically oriented Mac users will be fine digging around in hidden directories and editing files to manage virtual hosts, that's beyond the capabilities of many web designers.

VirtualHostX does away with such problems, enabling you to create a local domain name and choose a local path for each of your development websites. For example, you might store development files for mywebsite.com in ~/Sites/mywebsite/ and use the development domain name mywebsite.dev for testing in browsers. Changes to virtual hosts are applied by clicking Apply Changes and typing a password when prompted.

VirtualHostX earns further Brownie points in several ways. First, it encourages you to back up your existing server settings; plus amended settings can be backed up or restored at any time. If you prefer MAMP or XAMPP to Apple's built-in server, *VirtualHostX* can deal with that, and advanced users can add custom directives. And via a simple checkbox you can share your hosts with other users on the same local network.

The foolproof nature of *VirtualHostX* coupled with its affordable price means it's a no-brainer for Mac-based web designers working on multiple sites. But even if you're technical and don't mind poking around config files, *VirtualHostX* still comes recommended, purely from a timesaving perspective.

Craig Grannell



Domain Name: 2000adbooks.dev ☑ www.
Local Path: /Users/craiggrannell/Sites/20
☑ Enable this virtual host
Port: 80
Directives:
☐ Share over local network

VirtualHostX enables you to set up virtual hosts in a matter of seconds.

»TEXT EDITOR

TextWrangler 3.0

£FREE www.barebones.com
Read the review on TechRadar
www.techradar.com/631521

Back in the day, we used to happily tinker in the 'lite' version of *BBEdit*. To some extent, that's what *TextWrangler* resembles – it's essentially Bare Bones Software's high-end text editor, lacking some high-end stuff.

What this means is that although you don't get things like HTML palettes, you do get an excellent tool for quickfire plain-text editing and a means of editing documents on servers. However, the creaky old interface has seen better days. But, nonetheless, this app's worth downloading for its find and replace.

Craig Grannell

VERDICT

★★★★☆

"The text editor equivalent of an old man wearing jet-powered rocket skates."

»WINDOWS-LIKE TASK BAR

uBar 1.0

$15 (£9) www.brawersoft.com
Latest price on TechRadar
www.techradar.com/631620

We get the idea behind *uBar* – it's a vaguely Windows-like task bar that might appeal to people who dislike the OS X Dock. However, *uBar* is ugly and buggy. Bizarrely, clicking its clock launches the Date & Time System Preferences, and it doesn't enable you to access Dock menu items. For an encore, *uBar* crashed twice during testing, and also wandered away from the foot of the screen.

If it was free, we'd go easier on it, but it's $15. If you really want something other than the Dock, go for *DragThing*.

Craig Grannell

VERDICT

★☆☆☆☆

"This app was so bad that we had to have a nice cup of tea and a little walk to calm down."

»C64 MUSIC PLAYER

SIDPLAY 4.1.3

FREE www.sidmusic.org
Read the review on TechRadar
www.techradar.com/631630

For anyone who used to own a C64 and wants a shot of nostalgia, *SIDPLAY* should do the job. The app provides a vaguely *iTunes*-like interface for playing tracks from the HVSID collection, which encompasses tunes from C64 games and demos. Tracks can be exported to various formats, and palettes provide access to information about the music and controls for fine-tuning playback.

However, the interface isn't nearly as refined as that of *iTunes*, and it can be fiddly to navigate through tracks and sub-tunes.

Craig Grannell

VERDICT

★★★★☆

"SIDPLAY is ideal for any C64 owners who just can't let the past fade away."

All your Apple needs
Mac FORMAT
40 great iLife tips
HOW TO SAVE MONEY ON AN iPHONE
Networking made easy
SNOW LEOPARD UNLEASHED!
101 BEST-EVER Mac Tips
NEW NANO: THE VERDICT
Snow Leopard
The ultimate user guide

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DIGITAL MUSIC PLAYER

Apple iPod nano 16GB

Mac FORMAT Choice ★★★★★

£135 The new iPod nano packs more punch than ever before

CONTACTS

Manufacturer: Apple
www.apple.com/uk
Latest price on TechRadar
www.techradar.com/636210

SPECIFICATIONS

Resolution: 240x376 pixels, 2.2-inch diagonal screen **Capacity:** 16GB **Frequency response:** 20Hz to 20,000Hz **Audio format support:** AAC (8 to 320Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX and AAX+), Apple Lossless, AIFF, WAV **Weight:** 36.4g **Dimensions:** 90.7x38.7x6.2mm

PROS & CONS

- ⊕ Video quality impressive for size
- ⊕ Live radio pausing
- ⊕ VoiceOver works well
- ⊕ Superb music management
- ⊖ Song tagging not available in UK
- ⊖ Fiddly to hold when taking video

VERDICT

★★★★★

"Bursting with colour and new features, the nano has truly come of age."

The iPod nano is still Apple's best-selling iPod. It's small, lightweight and fits into even the smallest pocket. Now Apple has beefed up this miniature marvel considerably, with the addition of a video camera, speaker, FM radio tuner and a slightly bigger screen, all without changing its physical dimensions by even a single millimetre. And at the same time dropping its price by £11 to a more wallet-friendly £135. When you stop to think about it, it's actually amazing how much tech Apple has managed to squeeze into the nano's incredibly thin case. But enough of the wonderment – what's it like to use?

Video on the go

We have to admit to being pleasantly surprised with the iPod nano's video quality. At just 6.2mm thick, the video it produces is never going to be of the highest quality, since there's hardly any room to pack in a decent lens. We also found that the size of the nano worked against it when you shoot video – it's all too easy to get your finger in the way of the lens.

Despite this, video is clean, detailed and surprisingly good. While its 640x480 VGA resolution is perfectly adequate for taking a few fun clips of your friends on holiday, which you can then upload to YouTube, it's still not the sort of thing you want to be recording your baby's first steps with for posterity. As if to emphasise the nano's function as a "just for fun" video camera, Apple has included 15 real-time special effects you can apply to spice up your video. These are similar to the effects found in *iMovie*, and range from classics such as Twirl and Light Tunnel to more modern creations like Cyborg, which overlays robot-style animations. They all work well, but are really just a gimmick that you'll use a few times, then forget about.

> *"When you stop to think about it, it's actually amazing how much tech Apple has managed to squeeze into the incredibly thin case"*

Of course, you'll want to show people the video you've taken immediately, so Apple has included a speaker through which your friends can hear the audio as you playback the clips. As you'd expect, the speaker sounds thin and tinny, but it'll suffice. You're not going to really want to play your music through it though.

Again, to increase the fun factor, the nano now comes in a range of impressive bright colours. The cases are coated in anodised aluminium, and are particularly tactile and not in the least bit garish. Given the lively finishes, it may seem that the nano is aimed squarely at the YouTube generation, but don't let that fool you into thinking this isn't a great product for older music listeners too.

For instance, Apple has finally got around to building an FM radio into one of its iPods. That's right – the nano now uses the headphones as an antenna, which you'll need to have connected whenever you want to listen. Unfortunately, that rules out using the speaker for radio. The real beauty of the implementation here, though, is that you can pause live radio for up to 15 minutes. This is a truly great feature for such a tiny device, and it's as simple to use as

9:42 AM
Grizzly Bear
Two Weeks
Veckatimest
1:02
-3:01
2 of 12
MENU
0:12:20

You can choose from a new range of anodised aluminium colours that really look the part.

QUICK LOOK / The nano's new features at a glance

Speaker
There's now an external speaker on the iPod nano, so you can hear audio when watching video back, and you can also use it to play music through. Once you plug in your headphones, the speaker is silenced.

Video camera
The iPod nano's video camera takes H.264 VGA video (640x480 pixels) up to 30 frames per second with AAC audio. We were impressed with the video quality it produces. It can't take still photos, though.

iPod
iPod
Music
Videos
Photos
Podcasts
Extras
Settings
Shuffle Songs
MENU

Larger screen
The new nano has a larger 2.2-inch (diagonal) screen, with a 240x376 resolution. It's not ideal for viewing proper movies, but it's fine for watching back videos taken with the built-in video camera.

Click Wheel
Apple's iconic Click Wheel remains a feature of the iPod nano. Without a touchscreen available, it remains the best input and control method we've tried in any portable media player.

pressing pause, then play to resume live radio reception.

To find a station frequency you just scroll the Click Wheel around, or press forward to search automatically. Favourite stations can be added with ease, and the whole system feels intuitive and easy to use. There's also the ability to utilise song tagging – so you can tag songs you like by pressing the Click Wheel for later purchase on *iTunes*. Sadly, this feature doesn't work in the UK, and there's no word on when it will.

VoiceOver

Apple has imported VoiceOver from the iPod shuffle to the nano. This isn't the same as the iPhone's Voice Control, which is the ability to recognise voice commands, such as "play song by Muse"; instead it means the nano can tell you what song and artist is currently playing when you hit the centre button on the Click Wheel. It can talk to you in multiple languages too. VoiceOver was originally designed for the screen-less iPod shuffle, but it works surprisingly well on the nano too, for occasions when you're jogging or at the gym and you can't look at the screen.

Other innovations include a pedometer, which utilises the nano's built-in accelerometer to help you keep fit. Well, at least it counts the number of steps you've taken that day, so you can try to keep up with the 10,000 steps a day that doctors recommend. It's not completely accurate – in tests it missed the occasional step, but it's good enough for you to be able to trust its readings. Real sports enthusiasts will of course need to purchase the Nike + iPod sport kit to track their running data using the pedometer.

The iPod nano is overflowing with so many genuinely useful new features that it's easy to forget that at it's heart, it's still an iPod whose main job is to play music. The 16GB flash drive capacity may come across as a bit on the small side these days, especially if you want to watch purchased movies, although you can still fit eight hours of video at full quality on it. Of course, once you add in tracks from your music library, podcasts and video podcasts, you'll start to run out of space pretty fast. As usual for iPods, battery time in our tests perfectly matched Apple's prediction of 24 hours for audio and five hours for video.

All in all, this is a great update to the nano, and one that will ensure it remains Apple's top-selling iPod.

Graham Barlow

MISSING FEATURES What the nano can't do

While there's a video camera in the new iPod nano, it can't take still photos. This seems a strange omission. If it can take video, it's obviously capable of taking still photos, but Apple has deemed the lens (which lacks auto-focus) as insufficient to act as a stills camera.

Comparing it to the iPod touch, another omission is WiFi. This means in order to share your nano videos you need to connect to your Mac, and load them into *iPhoto*. Then you can load up *iMovie* and use that to upload to YouTube. It's a bit of a convoluted process.

There's also no App Store for the nano. While you can buy a smattering of simple iPod nano games from the iTunes Store, there's nothing comparable to the App Store. New games for the nano are few and far between and if you're looking for an iPod that is also a good games machine then you need to get an iPod touch.

>> NETWORK ATTACHED STORAGE

ReadyNAS NVX RNDX4410

£1,204 Storage just moved up a level, but unfortunately so did the price

The ReadyNAS NVX is impressive at 4TB, but far too expensive.

CONTACTS

Manufacturer: Netgear
www.netgear.co.uk
Latest price on TechRadar
www.techradar.com/636223

SPECIFICATIONS

Capacity: 4TB **Interfaces:** 2x Gigabit Ethernet, 3x USB 2.0 **Dimensions:** 200x132x222mm

PROS & CONS

- ⊕ Stunning performance
- ⊕ Huge storage space
- ⊖ Incredibly expensive
- ⊖ Definitely not 'whisper-quiet'

VERDICT

★★★½☆

"Netgear is asking a bit much for this otherwise outstanding NAS."

How much storage do you really need? That question lacks a definitive answer, but you need to ask it before considering the latest addition to Netgear's ReadyNAS family. More space equates to higher prices, and in the case of the NVX, you're looking at the sort of money that would buy you a whole new Mac – not too surprising when you consider that this is a fully functional computer in its own right – with 4TB of storage to call on.

The ReadyNAS NVX is impressively heavy, and plastic front door aside, is sturdy enough to survive some serious knocks. It's a high-spec machine as well – boasting 1GB of RAM and two Gigabit Ethernet ports. The capabilities list is impressive: aside from the ubiquitous printer server, you'll find it also offers an *iTunes* streaming server and *Time Machine* support for one of your machines.

Netgear has kitted the unit out with four SATA-II ports which, when used with the default X-RAID 2 (offering up to 2.7TB of fault-tolerant storage), manage read speeds of 10.21MB/s and a write performance of 10.37MB/s. Stunning, in other words.

There are problems with the NVX though, not least of which is the price – 1TB drives can be had for less than £60, so even allowing for the other hardware, there's some serious creative accounting at work here. Netgear claims the unit is "whisper-quiet" too, but it really isn't. It's as noisy as a PC, which, given the high-performance internals, makes sense, but why claim it's nearly silent? We'd prefer better security on the unit itself, but hopefully its sheer weight should deter thieves.

Alan Dexter

>> VIDEO-ENCODING HARDWARE

Roxio Easy VHS to DVD for Mac

£58.99 Digitise your old videos onto DVD with just a few clicks

roxio
VIDEO CAPTURE USB

Got a stack of dusty old videos in a cupboard? Get them onto DVD with ease.

CONTACTS

Manufacturer: Roxio
www.roxio.co.uk
Latest price on TechRadar
www.techradar.com/636227

SPECIFICATIONS

Supported inputs: Composite, S-Video **Requires:** G5 or Intel, Mac OS X 10.4 or later, DVD writer, USB

PROS & CONS

- ⊕ Easy to use
- ⊕ Cheaper than the Elgato model
- ⊖ Fewer export options
- ⊖ No splitting or trimming of clips

VERDICT

★★★★☆

"Great for converting to DVD, but less flexible than the Elgato Video Capture."

When we reviewed Elgato's video encoding widget in issue 210, we praised its ease of use, but at £90, wished it was cheaper. It looks like our prayers have been answered: Roxio has produced a similar product, which is a third cheaper.

Best of all, it's no harder to use. In fact, it's pretty identical, since it uses the same basic software. You hook up your video source over Composite or S-Video (unlike the Elgato model, this one doesn't come with cables or a SCART adaptor), tell the software how long the recording is and press Go. You're given the option of stopping recording automatically after the preset time has elapsed, or you can simply click a big red button to stop it manually.

Once the video is captured – it happens in real time, of course, so don't expect quick results – you're given the option to open it in *QuickTime* or *iMovie*, or send it straight to the bundled copy of *Toast Basic* so you can burn it onto a DVD, provided you have a supported writer. This dongle records in MPEG-2, which is DVD's native format, so it's quick and easy to burn DVDs. *QuickTime* can't, by default, open MPEG-2 files, so it has to transcode it first – it's not multi-core optimised, so it can take an age.

There's no simple way to convert files for iPod or iPhone (though *iTunes* could do that for you), or to upload to YouTube directly, and the MPEG-2 format is much more of a space hog on your hard disk than the H.264 files that the Elgato Video Capture produces, but if you're specifically looking for a solution to let you transfer old videos to DVD, this has you covered.

Christopher Phin

BAMBOO
BAMBOO
wacom

The red fabric tag isn't just a whimsical flourish; it holds your stylus when not in use!

>> INPUT DEVICE

Wacom Bamboo Fun Small

Mac FORMAT Choice ★★★★★

£89 Jealous of the Multi-Touch trackpads on the latest MacBooks? You can have something better!

Usually, product names are either a dull series of numbers or some unfortunate, aspirational nonsense dreamed up in a latte-and-biscotti-fuelled boardroom; this second-generation Bamboo Fun, though, is just that – great fun.

On first inspection, this is just more of the same from Wacom; it's a small graphics tablet with a stylus that you can use both as a tool to draw and write on-screen, and as an alternative to a mouse for general interface tasks. There are four configurable buttons to the left of the active area, as well as the traditional two-button rocker and eraser tip on the stylus.

This tablet has an extra trick up its sleeve, though: you can use your fingers as well as the stylus, so it's like a giant laptop trackpad. You can't use both at once – as a warning, the white status light turns orange when the stylus tip is near the surface – but happily, we were able to use our fingers on the tablet surface with the stylus resting in our hand, just as you would instinctively.

In this touch mode, you don't get any pressure sensitivity; it's just about moving the cursor about on the screen and selecting stuff, as you would with a mouse or trackpad. It is, though, smarter than that: it supports a range of basic gestures, so that you can scroll and pan on pages by using two fingers. A two-finger tap does a right-click, a two-finger swipe left or right sends a back/forward command, and you can, at least in some applications, do the pinch/unpinch gesture familiar to iPhone users to zoom in and out.

> *"The Wacom Bamboo Fun Pen & Touch Small has a trick up its sleeve: you can use your fingers"*

The touch and stylus actually complement each other phenomenally well, and you get a copy of *Adobe Photoshop Elements 6* and the brilliant natural media app *ArtRage* to help you make the best of the tablet. (The Medium tablet includes *Corel Painter Essentials 4* too.) The decision to position the cable on the left edge seems a little awkward, and even this small model is quite expensive, but overall this is a great, fun package.

Christopher Phin

CONTACTS

Manufacturer Wacom
www.wacom-europe.com
Latest price on TechRadar
www.techradar.com/637575

SPECIFICATIONS

Pressure levels: 1,024 **Size:** 248x176x8.5mm **Requires:** Mac OS X 10.4 or later, USB port

PROS & CONS

- ⊕ Touch and pen work well
- ⊕ Basic gesture support
- ⊕ Good software bundle
- ⊖ Expensive

VERDICT

★★★★★

"Simply brilliant. A big investment, perhaps, but definitely worth it."

>> LCD DISPLAY

Hannspree HF237 23-inch LCD Monitor

£135 A cost-effective way to go high-definition

The Hannspree HF237 offers high definition over a 23-inch screen.

CONTACTS

Manufacturer Hannspree
www.hannspree.com
Latest price on TechRadar
www.techradar.com/638150

SPECIFICATIONS

Connectivity: HDMI, VGA **Pixel resolution:** 1920x1200 **Contrast ratio:** 15000:1 **Colours:** 16.7m

PROS & CONS

- ⊕ Cost-effective HDMI
- ⊕ 1080p high definition
- ⊕ Good screen quality
- ⊖ Dreadful sound

VERDICT

★★★½☆

"A great value, capable display, but make sure you get a set of speakers for it."

This impressive 23-inch widescreen monitor has inputs for VGA and HDMI, and comes bundled with a HDMI-to-DVI cable: just the thing if you want to use the same display for computing, high-definition movies and video games.

The HF237 boasts a sturdy base and a screen that can be tilted, but not vertically adjusted. It has decent viewing angles too, with colours that begin to shift at about 30 degrees to the screen on the horizontal plane, with the vertical angles being slightly weaker – this is very agreeable at the price.

The lighting consistency is satisfying too, though it falls short of perfection. There's an over-bright band at the top of the screen and a slightly wider one at the bottom, but neither are very intense. Only the fussiest professionals would complain.

Screen quality is also impressive. Snow Leopard's Aurora desktop is well realised, with good detail and contrast, though maybe a little bitty in the darker areas. The colour ramps in our gradients test were smooth and clear, and it did a great job of distinguishing between 95% and 100% black, a task that proves problematic for many budget monitors. It struggled a little with 5% and 0% black, but the distinction was there. Where the HF237 really falls down is in its integrated audio. The tinny, bass-free speakers pump out tunes that sound like overspill from the room next door, making them intolerable for anything other than basic computing. **Ian Osborne**

>> INKJET PRINTER

Canon PIXMA iP4700

£85 A light revision for Canon's flagship model

Its predecessor's silver trim is gone, leaving a stylish all-black look.

CONTACTS

Manufacturer: Canon
www.canon.co.uk
Latest price on TechRadar
www.techradar.com/638117

SPECIFICATIONS

Printing: Inkjet **Resolution:** Up to 9600x2400dpi **Inks:** Five tanks **Paper capacity**: 150 sheets

PROS & CONS

- ⊕ Crystal clear text quality
- ⊕ Beautiful photo printing
- ⊖ Very reasonably priced
- ⊖ No big advances on the iP4600

VERDICT

★★★★½

"An excellent printer at a very reasonable price, but only a minor update."

The PIXMA iP4700 is Canon's latest five-tank printer. It isn't as feature-rich as some of its rivals, but it boasts auto-Duplex for double-sided printing, PictBridge for printing pictures directly from your camera, and it can print directly onto optical discs using the supplied *CD LabelPrint* application (*Preview* doesn't seem to line them up correctly).

Not much has changed from its predecessor, the iP4600. It now boasts an all-black design and recessed cable ports, and it's very slightly faster. If you already have an iP4600, it definitely isn't worth upgrading. But the high standards set by its predecessor are carried over, and the lineage retains its position as the best single-format inkjet currently on the market.

The text quality offered by the iP4700 is great, with clear, sharp characters and almost no bleed. It printed our 20-page test document in three minutes, 12 seconds – slower than a dedicated office machine but more than acceptable for a home printer. On plain paper and default settings, our test image was a little washed out, but beautifully clear. The greyscale ramp produced very little banding and the colours were accurate, if slightly light. Using photo paper and maximum quality settings, the results were excellent, with vibrant colours and rich tones.

Canon's PIXMA iP4700 isn't packed with features. There's no WiFi or Ethernet connectivity, no flash card reader and no LCD screen, but print quality is great. If you're after a printer at a good price, look no further. **Ian Osborne**

ALTEC LANSING
iPod
STANDBY
1 SYNC 2
ALTEC LANSING

With a wireless range of 100ft, you can liberate your Altec speaker from your iPod dock.

>> iPOD DOCK AND SPEAKER

Altec Octiv AIR M812

£270 Does this stylish speaker system sound as good as it looks?

You can't fault it for style. Altec Lansing's Octiv AIR wireless speaker system looks great on your wall or shelf, and because its sounds are beamed up to 100ft on the 2.4GHz wireless band, you don't have to position the stereo speaker unit near the transmitter.

As well as an iPod dock, the transmitter unit also offers an FM radio tuner with six presets and an auxiliary input, so you can connect any audio device with a 3.5mm headphone socket. You can also add up to seven extra speakers to stream your sounds throughout the house. Alternatively, you can buy two units and define one speaker set as 'left' and the other as 'right', separating your sound into two channels.

It's easy to set up, despite the woeful instructions. You just switch both units on and they connect automatically. The dock transmitter charges any iPod that utilises a USB connection, and can broadcast music from older, FireWire-charged iPods without charging the device. But it doesn't support the iPhone very well, forcing you to switch to Airplane Mode to listen to your tunes. There's no facility to connect the transmitter dock to your Mac via USB for syncing, which is an opportunity missed, but you can broadcast from *iTunes* through the very useful auxiliary port.

> *"You can add up to seven extra speakers to stream your sounds throughout your house"*

The audio quality offered by the Octiv AIR is extremely good, offering a rich, solid sound with plenty of character. Bass is prominent and deep, but not at the expense of treble. Indeed, both facets can be independently adjusted from the supplied hand controller, so you can set the mix to suit your tastes. Since both speakers are housed in the same unit, it struggles to define the shape of the sound, but the detail is strong. And at 40 Watts per channel (or 80, if you use a two-unit stereo setup), you're not short of volume either.

Altec's Octiv AIR isn't cheap, but you're getting a high-quality system for your money. It's equally at home wall-mounted or on a shelf or table, and the iPod dock transmitter takes up very little room.

Ian Osborne

CONTACTS

Manufacturer: Altec Lansing
www.alteclansing.co.uk
Latest price on TechRadar
www.techradar.com/638130

SPECIFICATIONS

Max output: 80 Watts **Frequency response:** 42Hz-22kHz (+/-10 dB) **Inputs:** iPod, FM tuner, Aux

PROS & CONS

- ⊕ Pleasingly stylish
- ⊕ Polished, rounded sound
- ⊖ Versatile input options
- ⊖ Could play nicer with an iPhone

VERDICT

★★★★☆

"An excellent system, but at the price, it should be iPhone-compatible."

01
02
03
04
Digital Zoom 8X
disgo

»POCKET CAMERA

Disgo Video Fun

£37 www.mydisgo.com
Latest price on TechRadar
www.techradar.com/637601

01 Disgo's Video Fun is a cheap pocket DV camera… and it shows. We tested it against two mobile phones (Nokia N73 and iPhone) and all three did a fair job recording outdoors in the sun, but struggled indoors under false light. The Video Fun failed to outperform the phones, and, in some areas, was much worse.

There's some nice bundled accessories, and if all you want to do is make movies in your garden and put them on YouTube, it's fine. But that's all.

Ian Osborne

VERDICT

★★☆☆☆

"It's sad to see phone-quality video on a dedicated device."

»EARPHONES

SoundMAGIC PL30 buds

£23 www.soundmagic.co.uk
Latest price on TechRadar
www.techradar.com/637633

02 With cables that fit behind and over the ear, the SoundMAGIC's PL30s are pretty comfy, though their sound isolation isn't so complete. Accessories include different-sized tips, a case, a cable tidy and a clothes clip.

Overall, the sound quality is fine, with clear detail. There's a knob on each earbud to switch from 'clear bass' to 'deep bass', but it doesn't do very much. Bass isn't a strong point, so we wouldn't recommend it for rock, but its midrange is ideal for pop.

Ian Osborne

VERDICT

★★★☆☆

"A light, trebly sound, but not very heavy on the bass."

»SHUFFLE ADAPTOR

Belkin shuffle cable

£12 www.belkin.com
Latest price on TechRadar
www.techradar.com/637638

03 The new iPod shuffle has one big drawback. Because its controls are on the earbud cable, you can't use third-party earphones. Until now.

This adaptor from Belkin sits between your shuffle and earbuds. It gives you all the controls you find on the set bundled with your shuffle, so you can adjust the volume, skip tracks, have the track details read to you and access the playlists, with any set of earbuds. The experience is exactly the same, just better sounding.

Ian Osborne

VERDICT

★★★★☆

"A cheap way to free your iPod shuffle 3G from Apple buds."

»ANTI-SCRATCH KIT

Radtech Bezel Blaster

£5 www.radtech.com/bezelblaster
Latest price on TechRadar
www.techradar.com/638077

04 'Bezel Blaster' is an over-the-top title for what you get. It's basically a rough refinishing pad with a fine-sandpaper texture for fixing scratches and blemishes in worn and tatty iPods and iPhone bezels (chrome finishes only), and a cloth for buffing up. It doesn't actually eliminate scratches, but gives you a more consistent scratch pattern by sandpapering them out. It takes away the shine as well as the scratches, so don't use it unless you want a brushed-metal finish.

Ian Osborne

VERDICT

★★☆☆☆

"Expensive for what's basically a fine sanding-block and cloth."

SOLD OUT!

Issue 207
May 2009

iTunes Masterclass
We test the Genius Bar
Write a novel on your Mac
Six NAS iTunes servers
On the disc
Captain FTP 6, Language Alchemist 2, R10Cipher 1.1

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Stargaze with your Mac
Create DJ playlists
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Fanurio1.7, HyperImage 1, Realsoft 3D 6

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Understand digital video
Get to grips with Tweetie
On the disc
Money 2, Speed Download 4 & BatchOutput DOC

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Upgrade to iPhone 3.0
Digitise analogue media
On the disc
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Make iPhone ringtones
New MacBook Air reviewed
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CoverScout 2, Aiko 4 Starter Pack, Style Master 4.6

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Apple on the high street
What's next for making music on your Mac
How to share iPhoto presentations
Get faster internet
Budget monitors group test

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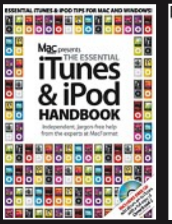

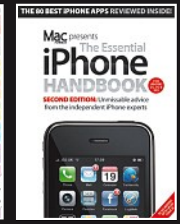

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iPhone

» MEET YOUR iPHONE EXPERT
Deputy Editor Christopher Phin knows more about the iPhone than any one man has the right to.

NEWS IN BRIEF

Mobile merger

T-Mobile and Orange plan to merge their UK businesses, in a deal which would create the UK's biggest network, with 28.4m customers and a whopping 37% of the UK mobile market. O2, the UK's exclusive iPhone carrier, currently controls 27% of the market. The latest merger talks have given fresh impetus to rumours that the iPhone will soon be available on other networks.

C64 emulator gets approval

The C64 emulator was recently approved for the App Store. Apple is edgy about software that lets other apps run – for both stability reasons and a perceived threat to the App Store's hegemony – but since the iPhone OS 3.0 enables in-app purchasing, the C64 emulator was given the go-ahead. After some initial hiccups, Manomio's app should now be available to purchase.

» MUSIC SERVICE

Spotify

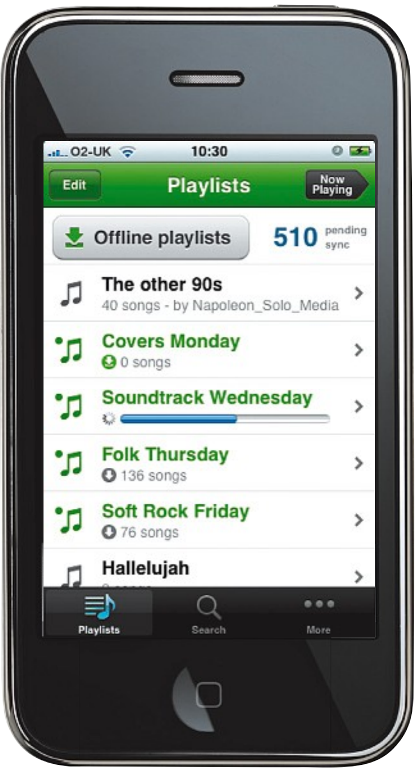
£FREE (requires subscription) All the music in the world can be yours

Once upon a time, you had to physically be in the same room as a musician to hear music. Then you could take an album around with you on tape or CD. Soon you could carry thousands of tracks on an iPod wherever you went. And now? Now, you can take nearly all the music in the world with you to listen to.

Spotify is now on the iPhone and it gives you access to a huge library of music from the major labels, plus a bunch of indies. (As with the *Spotify* app for Mac and Windows, the catalogue's not exhaustive, but it is immense.) First, the bad news: though the app for the iPhone is free, you can't simply use it to stream music as you can on the desktop apps – we wish they'd let us pay for the iPhone app if it meant we could enjoy the ad-supported streams – and you'll need to be a premium member. It costs £9.99 a month (£119.88 a year); the 99p day passes don't work here.

> *"Not only can you stream music from Spotify to your iPhone, you can also cache up to 3,333 tracks locally"*

The good news is that not only can you stream music from *Spotify* onto your iPhone, you can also cache up to 3,333 tracks locally. It's a bit like downloading tracks – except you don't get to keep them – and it means you can listen to the playlists you or others have created even if you don't have a data connection.


O2-UK
10:30
Edit
Playlists
Now Playing
Offline playlists
510 pending sync
The other 90s
40 songs - by Napoleon_Solo_Media
Covers Monday
0 songs
Soundtrack Wednesday
Folk Thursday
136 songs
Soft Rock Friday
76 songs
Hallelujah
Playlists
Search
More

The app itself is generally well-built, though there's currently no support to scrobble your listening to Last.fm. Sadly, clicks on a connected headphone set try to control the iPod, not the playback in *Spotify*. Neither will the app play music in the background.

We've rated this app on the assumption that you're happy to consume your music on subscription, without ever actually owning it; if not, you already know that *Spotify*'s not for you. ●

CONTACTS

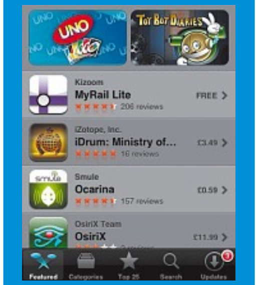
Developer: Creaceed
www.creaceed.com

VERDICT

★★★⯪☆

"The app and service work, but many will balk at a tenner a month with nothing to keep."

» DOWNLOAD THESE APPS


UNO
Toy Bot Diaries
Kizoom
MyRail Lite
FREE
206 reviews
iZotope, Inc.
iDrum: Ministry of...
£3.49
16 reviews
Smule
Ocarina
£0.59
157 reviews
OsiriX Team
OsiriX
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You can download these apps from the iTunes Store on your Mac or from the App Store on your iPhone or iPod touch.

>> SATELLITE NAVIGATION

TomTom Western Europe

£79.99 Got an iPhone 3G or 3GS? Now you've got a TomTom

This, then, is the one we've been waiting for. The bad news? It's expensive, and cheaper apps (the UK edition of *CoPilot Live* is just £26, against the £60 of TomTom's UK edition, for example) can do the basic sat-nav work of getting you from A to B. And it doesn't feature live traffic or fuel prices. And its POI database doesn't match Google Maps.

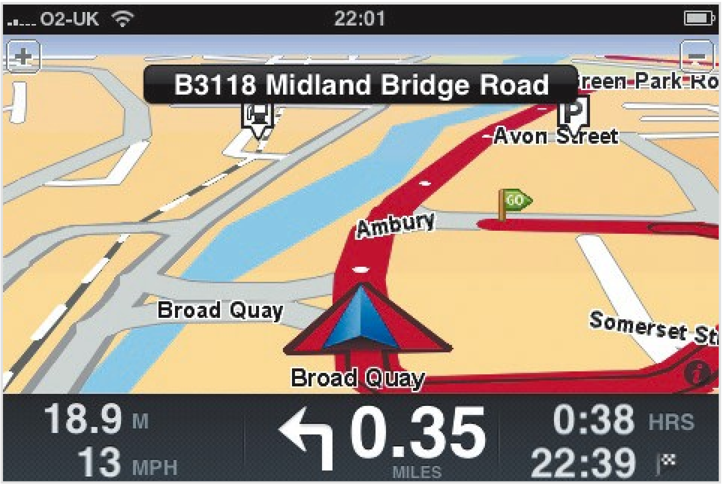
But blimey, it's a lovely app. The level of polish is fantastic; its anti-aliased graphics are prettier than on actual TomTom sat-navs, though it lacks lane assist, and often struggles to parse contacts. It has TomTom's IQ Routes tech, which knows what roads get busy and when, and changes its routing based on when you're travelling.

On its own, the app is great, though the iPhone struggles to maintain a GPS lock around tall buildings. But paired with the TomTom car kit, it's brilliant. GPS reception is rock solid and audio prompts are clear. ●

VERDICT

★★★★☆

"A slick, useful version 1.0. The signal boost of the optional car kit was most welcome."


O2-UK
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B3118 Midland Bridge Road
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Avon Street
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Ambury
Broad Quay
Somerset St
Broad Quay
18.9 M
13 MPH
0.35
MILES
0:38 HRS
22:39

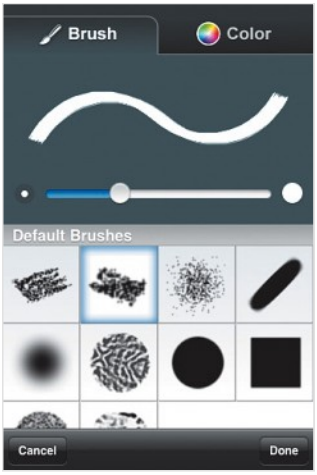
>> PAINTING APP

Layers

£2.99 Unleash your creativity

There are countless painting apps on the Store, but this one's special. It's not just that its surprisingly decent natural media brushes produce some genuinely good results, aided by a slider to control opacity and an eyedropper to suck up colour. As the name suggests, it's the fact that you can add up to five layers, and even export your creations as layered PSDs, which makes this app stand out. You can even choose a photo as a layer; just use the eyedropper and you can cheat at creating decent stabs at art.

The square canvas and fixed pixel dimensions can feel a bit restrictive, and the limitations of the iPhone platform – a lack of pressure sensitivity, plus a small screen that necessitates controls having to be called up separately with a shake of the iPhone – can be irksome, but it's still a good app to satisfy those creative urges. ●


Brush
Color
Default Brushes
Cancel
Done

VERDICT

★★★★☆

"Limited by the iPhone itself, but accomplished and fun for artists and kids alike."

>> PERFORMANCE TRACKER

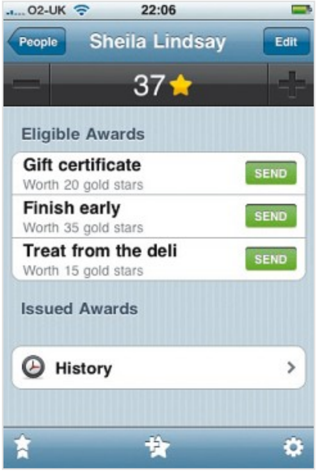
Awards

59p Track performance and issue rewards

Using *Awards*, you can track achievements for your children, staff and more. You begin by adding people from your **Contacts** list (which is handy, since it means it's easy to issue awards to the email addresses on these entries), then go on to award gold stars. You can either add them manually or tap a task – 'tidied room' or 'handed work in ahead of deadline', for example.

You can create your own tasks and assign them a star value, then add them to that person's history. Then you set appropriate rewards – 'an hour of TV' might be worth 5 stars – which you can issue and redeem via email as pretty graphical certificates.

Configuration can be a little tedious, however, and we'd like to see some tie-in with a web service so that the people you're monitoring can see what rewards they're eligible for. ●


O2-UK
22:06
People
Sheila Lindsay
Edit
37
Eligible Awards
Gift certificate
Worth 20 gold stars
SEND
Finish early
Worth 35 gold stars
SEND
Treat from the deli
Worth 15 gold stars
SEND
Issued Awards
History

VERDICT

★★★★☆

"A handy, pretty system, but there's optimisation and enriching work to be done."

Games

» MEET YOUR GAMES GURU

Andy Dyer is a legend, having worked on many games mags. He now gets his gaming fix on his iMac and iPod touch.

● ACTION & ARCADE ● PUZZLE & STRATEGY ● ONLINE ADVENTURE ● iPHONE GAMES

NEWS IN BRIEF

Cataclysmic event

In a shock announcement, Blizzard Entertainment announced that *World of Warcraft* is being shelved indefinitely. No, wait. We misread the press release. Apparently they're going to enhance MMO with two new races, all-new zones, a bunch of quests and dungeons, and changes to existing realms. Phew! Check out **www.worldofwarcraft.com**

Space 'n' Vader

Star Wars: The Force Unleashed is on its way to the Mac this winter in the form of the *Ultimate Sith Edition*. Already a hit on consoles, it'll feature three new levels, with additional costumes and character models. Darth Vader's Secret Apprentice will travel to such iconic locations as the Jedi Temple and Hoth. **www.lucasarts.com**

» MASSIVELY MULTIPLAYER ONLINE GAME

Warhammer Online: Age of Reckoning

£TBC The War is coming; don't forget your hammer

Warhammer Online: Age of Reckoning was extremely warmly received when it launched on PCs in September 2008. Now Mac users can find out why *WAR* is such a fine alternative to *World of Warcraft*. There's already a beta version available in advance of the full game's imminent Mac launch.

This is a massively multiplayer online role-playing game for two sets of gamers. First, it's hugely attractive to existing fans of Games Workshop's tabletop *Warhammer* franchise. It should also appeal to those who find *World of Warcraft* just a bit too, well, fluffy. *WAR* is not without its humorous moments, but the fun here is of a darker nature; this game is really all about the war.

> *"The novelty with Realm vs Realm is that players can switch to fight alongside their allies"*

WAR's collision detection means that you can use big units to block your enemy's progress.

Key to its success is *WAR's* Realm vs Realm (RvR) combat system. There are three realms, each with two factions waging war on each other. On the side of good (or order) are the Dwarfs, the Empire (humans) and the High Elves. On the side of evil (or chaos) we find greenskins (orcs and goblins), Chaos players, and Dark Elves. The novelty with RvR is that players can switch in order to fight alongside their allies against an entirely different class of characters. As well as this innovation, *WAR* also features more established Player vs Player (PvP) and Player vs Environment (PvE) challenges of the sort you'd find in *World of Warcraft*.

There are four types of combat. Skirmishes occur at random during the player's travels, while Battlefields, Scenarios and Campaigns are larger set-piece affairs with the latter being a full-on assault against a capital city.

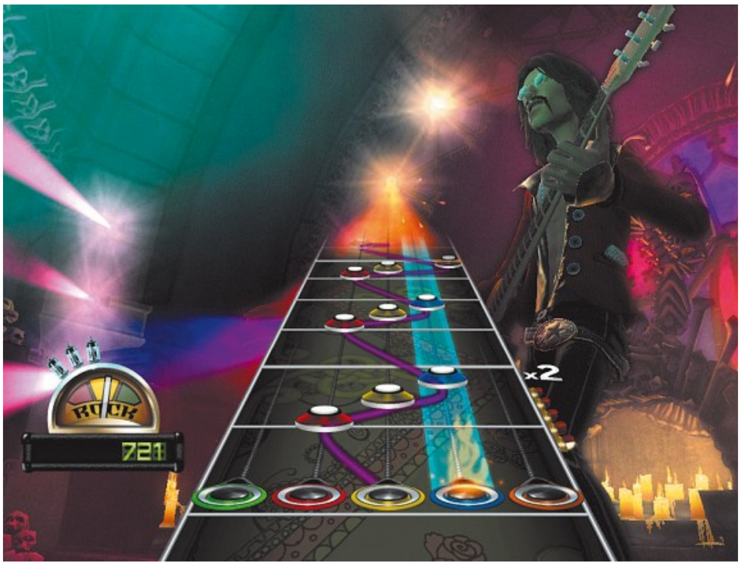
Everything the player does in *WAR* generates Victory Points, and when enough have been collected, that player's faction takes control over the zone they're currently in.

The Mac release date is still stated as this Autumn, but in the meantime, why not sign up for the trial at **www.warhammeronline.com/mac**. ●

»RHYTHM ACTION

Guitar Hero World Tour

£70 (with guitar)/£30 (game only) Take an entire band on the road to rock 'n' roll stardom



Play this song well, and your next gig could be in front of an adoring stadium crowd.

Activision's *Guitar Hero* franchise is, by any standard, a phenomenon. But as the saying goes, you're only as good as your last game. Unfortunately for the publishers of *Guitar Hero*, they lost the last round to rival EA's *Rock Band*, a game that introduced drums, bass and singing to the already successful strum-along formula.

World Tour is Activision's response, and in most respects, it's a belter. Not only can you play lead guitar, but you can also take on the rhythmic duties of a bass player, add percussion in the role of drummer, or steal all the glory as lead singer. Seeing as the game only comes with a bundled guitar (a fact we'll return to later) most people will be playing the part of lead guitarist, and here it's pretty much business as usual.

Great setlist

For readers who have been in Siberia for the last couple of years, business as usual amounts to pressing coloured buttons on the guitar controller's fret board and strumming in time to on-screen prompts. Get it right and you'll play ever larger gigs and venues until you're a rock star.

> *"Anyone who doesn't get excited about playing 'Livin' on a Prayer' and 'Eye of the Tiger' must be dead inside…"*

And as anyone who's played *Guitar Hero* before will attest, it's a powerfully addictive formula.

World Tour is especially generous in its soundtrack. There are more than 80 songs spanning 40 years of quality rock and rolling. Highlights are too numerous to mention, but let's just say anyone who doesn't get excited about playing 'No Sleep Till Brooklyn', 'Livin' on a Prayer' and 'Eye of the Tiger' must be dead inside.

The recording studio feature is also, one would imagine, a very appealing addition to the mix. After all, you can bring up a blank musical sheet and lay down notation for guitar and percussion, gradually building up your very own original composition. But this is enticing for console gamers only. The somewhat awkward nature of the process and the limited instrumental scope is – for Mac users whose machines came with *GarageBand* – a bit of a waste of time. Composing your own track and then going on to play it, or challenge your friends with it in-game, is a novelty, and quite a sweet one, but to music-savvy Mac users, it's not much more than that.

Missing kit

There's another problem with *World Tour* on Mac, though, and it's a fundamentally damaging one. There's no option to buy a complete hardware bundle, featuring a guitar, drums and microphone. That means you can only really exploit the game's full feature list if you already own the hardware from *Guitar Hero World Tour* or *Rock Band* on another system (or you have a friend who does). At which point you have to ask yourself why you'd buy the Mac version of a game that's already been perfectly well-implemented on one of those other systems. That said, at least now your console-owning mates can bring all their kit around to your house, which might make a nice change.

If you're a Mac gamer and you haven't experienced *Guitar Hero* before, this is a superb standalone game, hence the four-star rating. If you've already got *GH III* though, this is probably only worth a look if you can borrow or buy the kit to make the most of it. ●

CONTACTS

Developer: Aspyr Media
www.aspyr.com
Publisher: Activision
www.activision.com

REQUIREMENTS

Processor: 2GHz Intel Core 2 Duo **RAM:** 1 GB RAM **OS:** Mac OS X 10.5.6 or later **Other:** GeForce 8600, Radeon X1600, 8.1GB hard disk space + 1GB for swap file

PROS & CONS

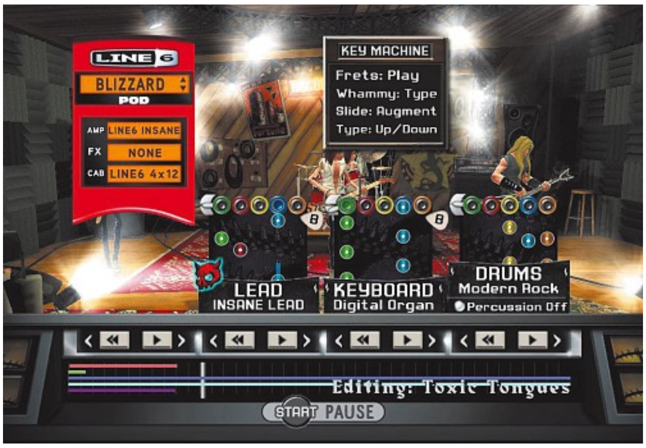
⊕ It's a great game
⊕ The track list is awesome
⊕ Adds slider bar on neck
⊕ Online multiplayer option
⊖ No full band bundle
⊖ No better than console version

VERDICT

★★★★☆

"It's a great game, but you can't explore its full potential without the extra hardware."

In World Tour, you can play the bass and drums, as well as the good old lead guitar.



>> TURN-BASED STRATEGY

Civilization IV: Beyond the Sword

£20 A massively generous assortment of new goodies for Civ fans

CONTACTS

Developer: Firaxis
www.firaxis.com
Publisher: Aspyr
www.aspyr.com

REQUIREMENTS

Processor: 1.8GHz PowerPC G5 or Intel **RAM:** 512GB RAM **OS:** Mac OS X 10.4.11 (10.5.6 recommended) **Other:** Requires Civilization IV for Mac, Radeon 9600, GeForce 6600, 128MB VRAM, 2.5GB hard disk space, DVD-ROM drive

PROS & CONS

- ⊕ Loads of scenarios
- ⊕ New civilisations
- ⊕ New victory conditions
- ⊕ More complexity
- ⊕ Superb value
- ⊖ Won't win over the sceptics

VERDICT

★★★★★

"Beyond the Sword is a wonderfully diverse add-on for Civilization IV, adding substantially to what was already a richly enjoyable game."

Not many games offer you a range of experiences as broad as those found in *Civilization IV*. To be able to transform a group of humble villagers into a thriving civilisation capable of space travel is a rare opportunity. And the fact that *Civ IV's* developers have taken the time and effort to bring us this opportunity is generous indeed.

And their generosity extends to the latest *Civ IV* expansion pack *Beyond the Sword*, a £20 bolt-on that provides a substantial addition to the game's already multitudinous aspects.

Beyond the Sword brings such a mountain of new features to the party that there are too many to discuss here, but we'll take a look at some of the highlights.

Beyond the Sword's got a load of new features, and the space race has been altered too.

Production and destruction

First off, there are 11 all-new scenarios delivering a significant challenge and plenty of variety. Afterworld is a scenario set on an alien world, Civ Defence is a level designed to play like a tower defence game, and there's even a scenario based on events during the Second World War.

In terms of in-game features, there's a lot to be cheerful about. *Civ IV*, of course, is about more than just building towns and getting into scuffles with other factions. Adding to the already complex mix, you can now set up corporations that grow and spread their influence across your empire and create additional resources for you. The set-up of a corporation requires a specific Great Person, but once established, that organisation can begin to increase your wealth and influence. And as in the real world, you can even try to block foreign corporations from operating in your territories.

On a more covert level, the espionage system has also been updated to include more ways than ever to mess up an opponent's progress. It's an expensive pursuit, but by recruiting spies you can embark on missions such as sabotaging another player's improvements and buildings, poisoning their water, encouraging a revolution and indulging in a bit of counter-espionage.

> *"By recruiting spies you can embark on sabotaging another player's improvements and buildings or encouraging a revolution"*

New space race

Victory conditions have also been tweaked, with new diplomatic scenarios and an improved space victory, which is achieved only after reaching Alpha Centauri.

No expansion pack would be complete without larger helpings of all the regular stuff, and again Firaxis has done a splendid job of providing new units, new buildings, new wonders and 10 new civilisations, including the Mayans, the Babylonians and the Holy Roman Empire. There are also some new leaders for existing ones, including Abe Lincoln, Charles de Gaulle and Suleiman the Magnificent.

All of these additions make *Beyond the Sword* a worthy release in the *Civilization* canon. ●

Weaken your enemies' strongholds by using spies to encourage revolution.

>>BUY ONLINE
You can download these iPhone and iPod touch games from the App Store.

>>iPOD/iPHONE STRATEGY

Civilization Revolution

£2.99 Build a huge civilisation on a small scale

You might think that trying to squeeze a game of such epic scope as *Civilization* onto a tiny device, such as the iPhone, would be a fool's errand. Well, this version boasts a lot of depth.

Featuring 10 substantial scenarios (and a random map generator), you gather resources to build cities and armies to gain influence and create a thriving civilisation.

Victory comes in four flavours. You can capture all enemy cities, collect 20,000 gold pieces, launch a space mission or collect 20 World Wonders and Great People.

The only problems are the lack of a multiplayer mode and the small view of your surroundings. Otherwise, this is a winner. ●

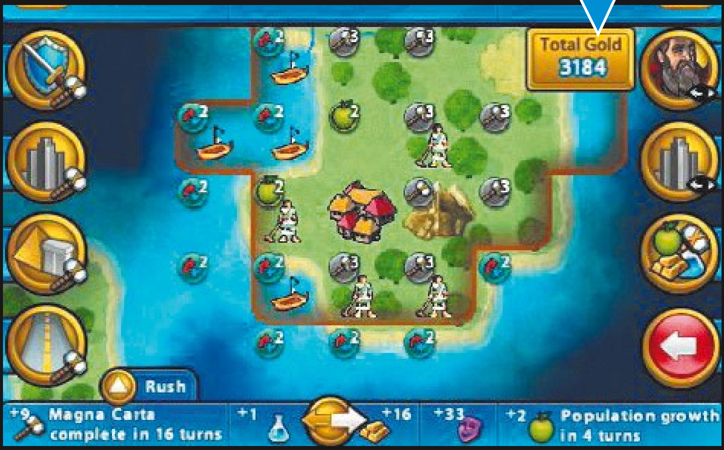
CONTACTS

Developer: Firaxis
Available from the App Store

VERDICT

★★★★☆

"Revolution is a great interpretation of the full-sized game, but the small screen causes a few issues."


Total Gold
3184
Rush
+9 Magna Carta complete in 16 turns
+1
+16
+33
+2 Population growth in 4 turns

Despite being squashed onto a small screen, Civilization Revolution boasts impressive detail.

>>iPOD/iPHONE PUZZLE GAME

Geared

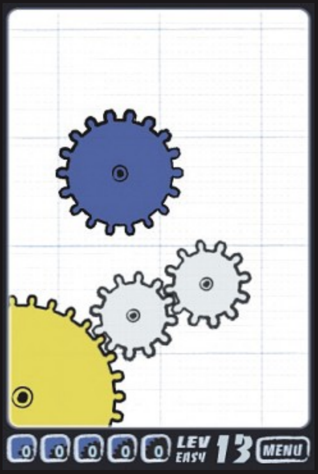
59p It's a form of cog-nitive therapy

There are some puzzle games that lay their stall out early. *Tetris* is a good example. There are falling shapes and you fit them together… that's all you have to do.

Then there are the overly complex ones, introducing more and more elements until your head hurts and you wonder what you were thinking about in exchanging cash for mental torture.

Geared is a weird one. It starts off so simple that it's almost mundane, and continues to plough its initially tedious furrow for roughly 20 levels. Only then does the play mechanic – that of placing cogs on a grid in order to link the initial gear to the end one – find its feet and provide challenging, engrossing puzzling for the remainder of its 80 levels.

It's the sort of game you'll buy, be mildly disappointed with for five minutes, then go on to play constantly until you've completed it – at which point you'll be sorely disappointed it's all over. ●



CONTACTS

Developer: Bryan Mitchell
Available from the App Store

VERDICT

★★★★☆

"A limited premise, but one that opens up to form a wonderfully satisfying challenge. This is 59p extremely well spent."

>>iPOD/iPHONE PUZZLE GAME

Balcassa

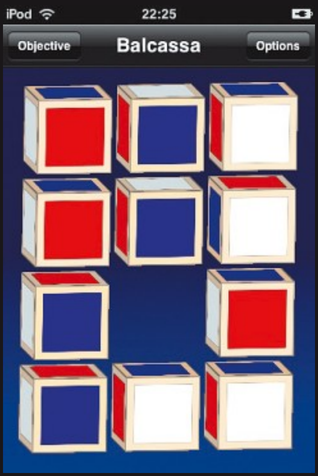
59p Rubik's Cube meets sliding tile puzzle

There's proof here that you should never judge a book by its cover. *Balcassa's* creators, for some inexplicable reason, have decided to hide their rather smart and ridiculously challenging puzzle game behind a truly dreadful front end.

The game is essentially a fusion of sliding tile puzzle and a Rubik's Cube. By rolling individual cubes around a grid, you have to achieve various aims, perhaps getting all the upper faces of the cubes showing the same colour, or assembling the faces of a bunch of dice in numerical order.

There's only a handful of puzzles available, but like a Rubik's Cube, it's not the variety but the complexity that's important to the game.

It's just a shame there's no linear progression through the levels, no 'journey' through the game. As it stands, *Balcassa* is a diverting toy rather than a fully-fledged game. Worth the money, but a bit workmanlike. ●



CONTACTS

Developer: Open Planet Software
Available from the App Store

VERDICT

★★★☆☆

"There's a great idea here, it's just not been turned into a proper game."

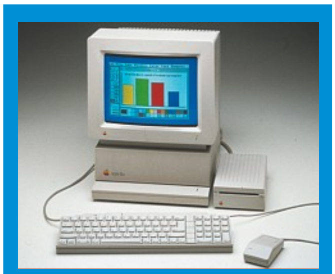
We look at the utilities that aim to provide hard disk first aid.

Illustration by A.k.A.

HARD-DISK RESCUE UTILITIES

Salvage crew

Christopher Brennan puts the claims of four hard-disk recovery tools to the ultimate test



DID YOU KNOW?
The earliest version of the Apple Macintosh didn't have an internal hard disk drive. The first Mac to get one was the Macintosh II in 1987, and even then it was only an optional upgrade. Indeed, it wasn't until 1988 and the IIx that they came as standard.

The hard disk at the heart of your Mac is a fragile tool. Not only can the data on it go awry, but the disk itself can also fail, leaving you with nothing. There's not much you can do about a physical failure other than keep a regular backup, but the software side of things is a bit more manageable. Disk tools for Macs have been around for a long time. Some (such as *Norton*) have gone, but others are still with us, protecting our data from corruption and optimising our drives for speed of access. But how do you choose which one to use? We've gathered four disk utility tools and compared them with each other to see which offers the best performance, specification and value for money.

We'll look at how easy they are to use and how well they perform. Of course, hard-disk tools have to be able to recover, repair and make hard disks faster, but the extra features are important too, so we'll be awarding points for added functionality. Bringing back a dead system might be priceless, but we'll be taking a stern look at what you get for your cash too.

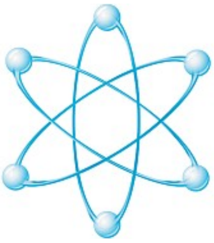
> *"Hard disk tools have to be able to recover, repair and make hard disks faster, but the extra features are important too"*

You need to know that when the data on your hard disk does stop working, the hard disk tool you've invested in can solve your problem – a one-stop recovery shop, as it were. In essence, it should be the type of software you only have to use once in a blue moon, precisely because it does its job properly, and that's exactly what we'll be looking for here. »

On test this issue

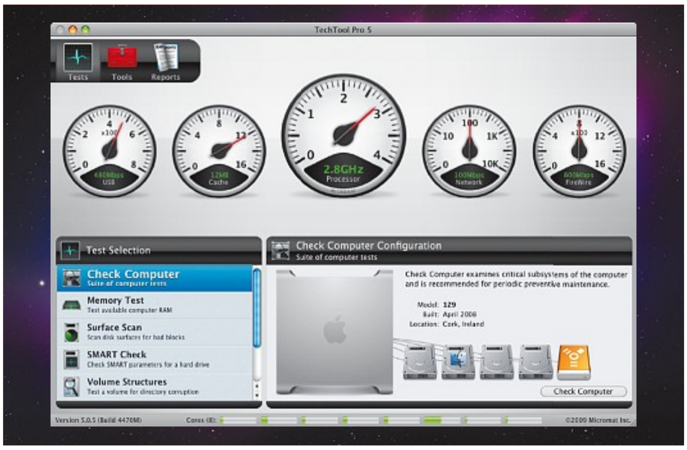
DiskTools Pro 3.0.2
£49

DiskWarrior 4.1.1
£99



Drive Genius 2
£69

TechTool Pro 5
£100


TechTool Pro 5
Tests
Tools
Reports
2.8GHz Processor
Test Selection
Check Computer
Memory Test
Surface Scan
SMART Check
Volume Structures
Check Computer Configuration
Check Computer

Check Computer examines critical subsystems of the computer and is recommended for periodic preventive maintenance.

TechTool Pro offers a lot more for your money in terms of features and functionality.

>> TEST ONE

Price

How much does it cost to rescue your precious data?

You might think that rescuing your data is priceless, but there comes a point where it's simpler to just format your disk and restore from a backup. Obviously, if you don't have a backup then you'd probably be willing to spend a little more to get your precious data back, but, even so, there are limits.

We're not simply giving the cheapest utility here the most marks, though *DiskTools Pro* is certainly a compelling buy at just £49. We're also assessing these utilities on what they do… over and above the call of duty. What else do you get from your cash? Bottom of the pile in this respect is *DiskWarrior*, which offers few extra features other than the directory rebuilding and hard disk graphing. At nearly £100, we expect more from our applications. *TechTool Pro* and *Drive Genius* certainly offer much more functionality for your money. Price may not be everything when it comes to rescuing the data on your hard disk, but it's certainly a consideration and here we have a clear loser.

>> TEST RESULTS

DiskTools Pro 3.0.2	★★★★☆
DiskWarrior 4.1.1	★★☆☆☆
Drive Genius 2	★★★★☆
TechTool Pro 5	★★★★★

>> TEST TWO

Ease of use

Critical software needs to be simple to use

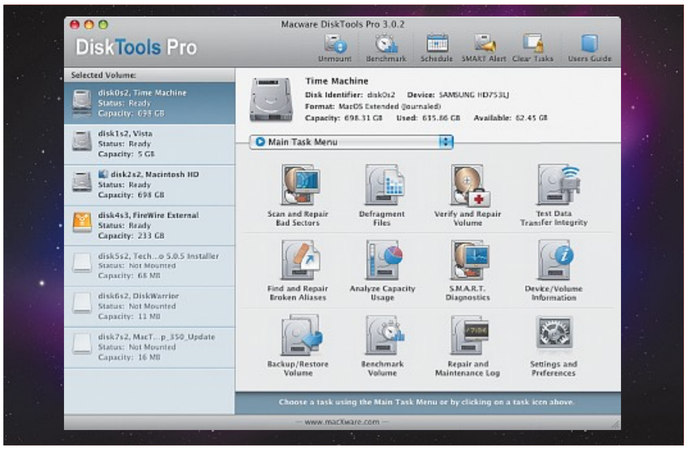
Making disk utilities easy to use isn't such a simple job; you've got to make them friendly enough so that anyone can use them, but also powerful enough so that they are capable of fixing any errors.

Here we found that all the applications manage to walk that fine line with aplomb. *DiskWarrior* does the least of all the utilities on test, but still manages to make what it does do easy enough to follow. But we were torn between the other three utilities. *Drive Genius* looks impressive with its swooping and rotating interface, but at times it feels a bit overdone. *TechTool Pro* looks impressive, although sometimes it throws up error messages and warnings that mean little at face value.

We like the simplistic interface of *DiskTools Pro* – simply select the disk you wish to repair or optimise, click the relevant icon and that's the test you're running. We rated *TechTool Pro* slightly higher than the others, on account of its user interface, but it's representative of how easy to use these applications are that they all scored so highly.

>> TEST RESULTS

DiskTools Pro 3.0.2	★★★★☆
DiskWarrior 4.1.1	★★★★☆
Drive Genius 2	★★★★☆
TechTool Pro 5	★★★★★


Macware DiskTools Pro 3.0.2
DiskTools Pro
Unmount
Benchmark
Schedule
SMART Alert
Clear Tasks
Users Guide
Selected Volume:
Time Machine
Main Task Menu
Scan and Repair Bad Sectors
Defragment Files
Verify and Repair Volume
Test Data Transfer Integrity
Find and Repair Broken Aliases
Analyze Capacity Usage
S.M.A.R.T. Diagnostics
Device/Volume Information
Backup/Restore Volume
Benchmark Volume
Repair and Maintenance Log
Settings and Preferences
www.macware.com

Choose a task using the Main Task Menu or by clicking on a task icon above.

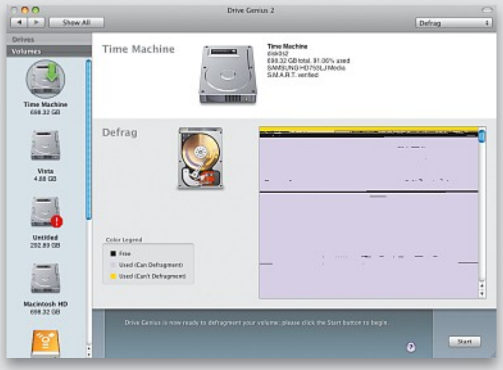
DiscTools Pro takes a simple, intuitive approach to its interface for ease of use.

>> DATA RESTRUCTURING / Is disk defragmentation useful?

You might be surprised to learn that your files aren't always held in one contiguous place on your hard disk. Files are sometimes split up by the OS and stored at different locations. This means that when you open the file the hard disk has to piece together the data from various sections on its surface. In turn, this leads to more fragmentation and, of course, a slower Mac.

Mac OS X does its best to keep this kind of fragmentation to a minimum by optimising files as it accesses them, and in the main it does a good job. Third-party utilities are the only way to force the defragmentation of a volume – other than reformatting it, of course.

Defragmentation takes the large files and puts them, where possible, into continuous sections in the empty area of the disk. While it's doing that, the defragmenter is also clumping together smaller files in one area for faster access. You're unlikely to be able to notice any speed hike in general use, but there's no reason you shouldn't perform a defrag from time to time.


Drive Genius 2
Show All
Defrag
Volumes
Time Machine
Vista
Untitled
Macintosh HD
Defrag
Color Legend
Free
Used (Can Defragment)
Used (Can't Defragment)
Start

Drive Genius is now ready to defragment your volume; please click the Start button to begin.

Data fragmentation is rarely, if ever, an issue on a Mac.

>> TEST THREE

Features

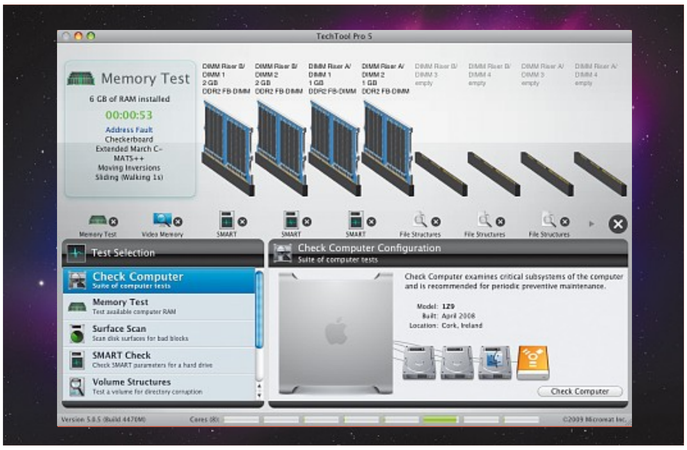
Which utility has the most tests and options?

DiskWarrior loses quite badly here. It may well be one of the longest-serving Mac disk utilities, but it really is a one-trick pony when it comes to fixing your Mac. That's not necessarily a bad thing, as it's actually an incredibly useful directory management tool, however that's all you get for your money. Yes, you can run it from the supplied DVD, enabling you to repair your system disk, but even then there are no additional features. *DiskTools Pro* has some useful tools, but the top performers in this test are *Drive Genius* and *TechTool Pro*.

You may not need all the various functions and features these two offer, but it's nice to have them all the same. We couldn't really prise these two apps apart – although they have differing options, the two are equally compelling. We liked the live partition tool of *Drive Genius* in particular, as well as *TechTool Pro's* eDrive function – a helpful emergency partition to run when things go wrong.

>> TEST RESULTS

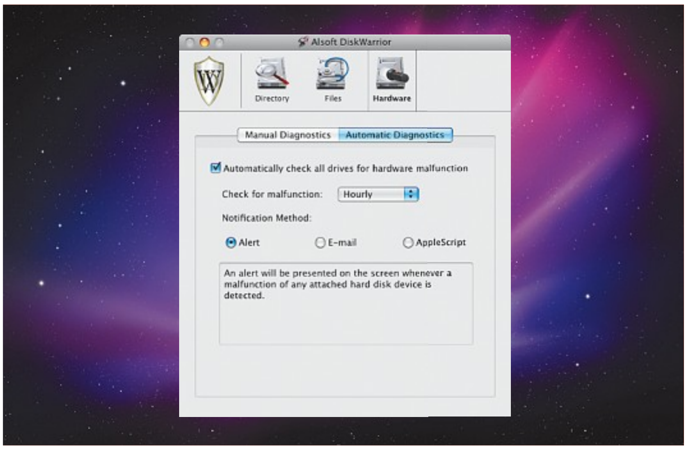
DiskTools Pro 3.0.2	★★★★☆
DiskWarrior 4.1.1	★★☆☆☆
Drive Genius 2	★★★★★
TechTool Pro 5	★★★★★


TechTool Pro 5
Memory Test
6 GB of RAM installed
00:00:53
Address Fault
Checkerboard
Extended March C-
MATS++
Moving Inversions
Sliding (Walking 1s)
DIMM Riser B/ DIMM 1 2 GB DDR2 FB-DIMM
DIMM Riser B/ DIMM 2 2 GB DDR2 FB-DIMM
DIMM Riser A/ DIMM 1 1 GB DDR2 FB-DIMM
DIMM Riser A/ DIMM 2 1 GB DDR2 FB-DIMM
DIMM Riser B/ DIMM 3 empty
DIMM Riser B/ DIMM 4 empty
DIMM Riser A/ DIMM 3 empty
DIMM Riser A/ DIMM 4 empty
Memory Test
Video Memory
SMART
SMART
SMART
File Structures
File Structures
File Structures
Test Selection
Check Computer
Suite of computer tests
Memory Test
Test available computer RAM
Surface Scan
Scan disk surfaces for bad blocks
SMART Check
Check SMART parameters for a hard drive
Volume Structures
Test a volume for directory corruption
Check Computer Configuration
Suite of computer tests
Check Computer
Version 5.0.5 (Build 4470M)
Cores (8):
©2009 Micromat Inc.

Check Computer examines critical subsystems of the computer and is recommended for periodic preventive maintenance.

Model: 1Z9
Built: April 2008
Location: Cork, Ireland

Along with Drive Genius, TechTool Pro sports a number of well thought-out features.


Alsoft DiskWarrior
Directory
Files
Hardware
Manual Diagnostics
Automatic Diagnostics

☑ Automatically check all drives for hardware malfunction

Check for malfunction: Hourly

Notification Method: ● Alert ○ E-mail ○ AppleScript

An alert will be presented on the screen whenever a malfunction of any attached hard disk device is detected.

DiskWarrior offers a number of automatic diagnostic tests to run on your hard disk.

>> TEST FOUR

Pre-failure tools

Letting you know when things are about to go wrong

They say it's better to prevent a problem than to have to fix one, so we tested each application for its ability to spot potential problems and let us know when things might be about to fail.

DiskWarrior enables you to test the S.M.A.R.T status of disks and provide an alert, via the program itself, an email or AppleScript. *DiskTools Pro* goes a step further, breaking down the individual tests to see what the status of each is, and you can edit how often the test is run. The application can also perform a data transfer integrity test to let you know how well a disk is performing.

Drive Genius lacks S.M.A.R.T status checking or alerts, but does have an integrity check; but by far and away the best tool for pre-warning of potential failure is *TechTool Pro*. It comes with a system preferences pane that monitors your Mac for S.M.A.R.T status and volume usage, enabling you to chose when and if warnings are given. If your hard disk is running too close to capacity, *TechTool Pro* lets you know.

>> TEST RESULTS

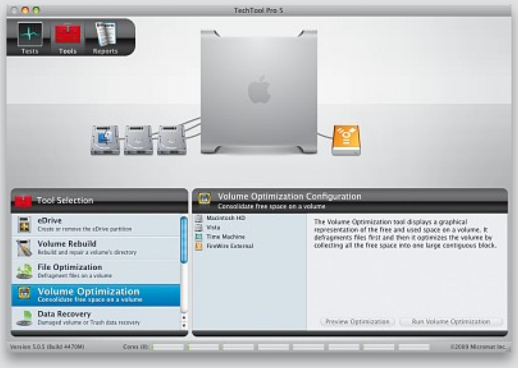
DiskTools Pro 3.0.2	★★★★☆
DiskWarrior 4.1.1	★★★☆☆
Drive Genius 2	★★★☆☆
TechTool Pro 5	★★★★★

>> DULL DIAGNOSTICS / Making the mundane look good

Let's face it: disk utilities are dull. Most people would be over the moon if they never had to use one. This is mainly because it would mean their Mac was in perfect working order. However, the other reason could be that the utilities are ugly and confusing to use. But while it's great to see *Drive Genius* and *DiskTools Pro* make an effort to keep things simple and clear, the real credit has to go to *TechTool Pro*.

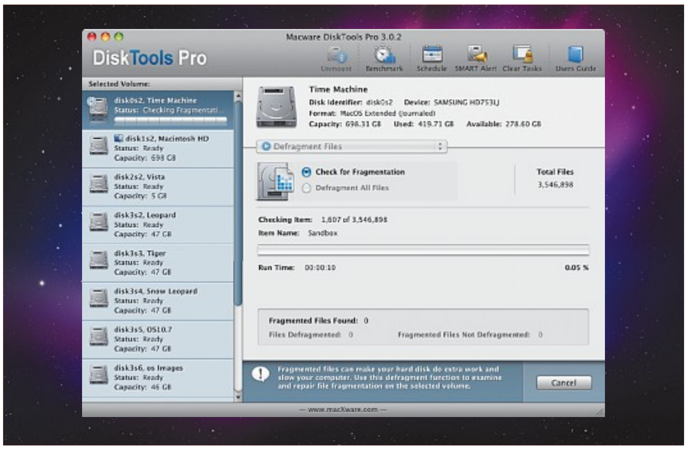
The standard window for *TechTool Pro* uses good old-fashioned needle indicators to show you how fast your network connection is, what processor speed the Mac has and a few other features. Pointless? Maybe. Immediate? Certainly.

It's often easy to criticise the interface of applications for being unintuitive, but in reality it's very difficult to build a front-end that everybody can use. This is especially so when developers have to concentrate so hard on the back-end of an application. It's for this reason that we're highlighting the *TechTool Pro* user interface, as it manages to take something relatively complex and make it simple.


TechTool Pro 5
Tests
Tools
Reports
Tool Selection
eDrive
Create or remove the eDrive partition
Volume Rebuild
Rebuild and repair a volume's directory
File Optimization
Defragment files on a volume
Volume Optimization
Consolidate free space on a volume
Data Recovery
Damaged volume or Trash data recovery
Volume Optimization Configuration
Consolidate free space on a volume
Macintosh HD
Vista
Time Machine
FireWire External
Preview Optimization
Run Volume Optimization
Version 5.0.5 (Build 4470M)
Cores (8):
©2009 Micromat Inc.

The Volume Optimization tool displays a graphical representation of the free and used space on a volume. It defragments files first and then it optimizes the volume by collecting all the free space into one large contiguous block.

TechTool Pro takes delight in informing you of your Mac's status.



disk0s2, Time Machine
Status: Checking Fragmentati...

disk1s2, Macintosh HD
Status: Ready
Capacity: 698 GB

disk2s2, Vista
Status: Ready
Capacity: 5 GB

disk3s2, Leopard
Status: Ready
Capacity: 47 GB

disk3s3, Tiger
Status: Ready
Capacity: 47 GB

disk3s4, Snow Leopard
Status: Ready
Capacity: 47 GB

disk3s5, OS10.7
Status: Ready
Capacity: 47 GB

disk3s6, os Images
Status: Ready
Capacity: 46 GB

Time Machine
Disk Identifier: disk0s2 Device: SAMSUNG HD753LJ
Format: MacOS Extended (Journaled)
Capacity: 698.31 GB Used: 419.71 GB Available: 278.60 GB

● Check for Fragmentation
○ Defragment All Files

Total Files
3,546,898

Checking Item: 1,807 of 3,546,898
Item Name: Sandbox

Run Time: 00:00:10 0.05 %

Fragmented Files Found: 0
Files Defragmented: 0 Fragmented Files Not Defragmented: 0

Fragmented files can make your hard disk do extra work and slow your computer. Use this defragment function to examine and repair file fragmentation on the selected volume.

DiskTools Pro enables you to test a hard disk before and after defragmentation.

>> TEST FIVE

Optimisation tools

Keeping your hard disk in the best of health

TechTool Pro and *Drive Genius* are again ahead of the curve here, with tools to make sure that the data on your hard disk is in the optimal place for speed of access. *TechTool Pro* has file and volume optimisation utilities. *Drive Genius* has a defragment tool and also the DriveSlim option, which runs five separate functions aimed at making your hard disk more slimline. Large files not used in the last 30 days, duplicate files, unused localisation resources and temporary cache items can all be identified and removed.

DiskTools Pro has a handy benchmarking tool so that you can test your hard disk performance before and after defragmentation, as well as other optimisation routines. You might only see minor speed increases, but at least you'll know the effort was worth the while. *DiskWarrior* is once again at the back of the queue, with nothing to offer in this round. You could argue that keeping the directory structure healthy enhances speed, but nothing in the interface alludes to this.

>> TEST RESULTS

DiskTools Pro 3.0.2	★★★☆☆
DiskWarrior 4.1.1	★☆☆☆☆
Drive Genius 2	★★★★☆
TechTool Pro 5	★★★★☆

>> TEST SIX

Speed

How fast are these disk utilities in an emergency?

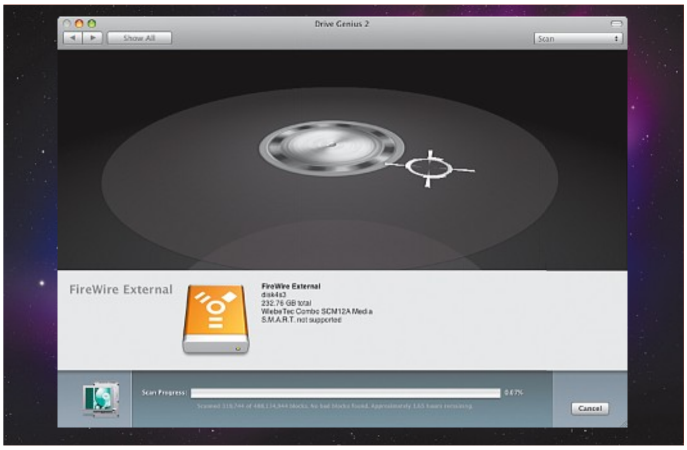
The speed of a disk utility in operation can be a difficult thing to judge, since it depends upon the complexity of the problem and the amount of data on your hard disk. However, a decent interface that lets you know how far along things are and just how long you might be waiting can be useful.

In this regard, *TechTool Pro* is excellent. Clearly the interface has been thought through and no matter what tool you're using, you're kept up to date with what's going on every step of the way. The other applications here all use the trusty progress bar, which is fine, if a little uninspired.

Having said that, all the applications here are slow. This isn't a criticism per se, as there's no substitute for thorough and determined action when it comes to disk recovery. Just don't expect a speedy and simple fix to any problem. *DiskTools Pro* managed to defrag a drive in about 17 minutes, but that wasn't much faster than *Drive Genius*, at 22 minutes. If speed is something you're after, you'll not find it here.

>> TEST RESULTS

DiskTools Pro 3.0.2	★★★☆☆
DiskWarrior 4.1.1	★★★☆☆
Drive Genius 2	★★★☆☆
TechTool Pro 5	★★★★☆



FireWire External
disk4s3
232.76 GB total
WiebeTec Combo SCM12A Media
S.M.A.R.T. not supported

Don't enter the world of hard-disk recovery expecting a quick solution.

>> THE WINNER / TechTool Pro 5

There's always a chance that none of these tools will fix your problem and, in that case, you'll feel they're a bit useless. However, we can only rate them on how they performed for us. *Drive Genius 2* was a close contender and *DiskTools Pro* a decent application; even *DiskWarrior* does what little it does very well, but there was one standout performer.

From the outset, *TechTool Pro 5* made most of the running in this four-horse race. For starters there's the excellent interface, which makes things simple even for the most tech-phobic Mac user. Under the hood, however, the range and depth of tools available is excellent. None of the utilities were particularly fast, but *TechTool Pro* certainly had the best working interface.

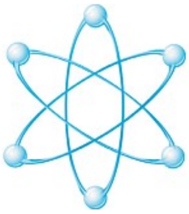
TechTool Pro is the most expensive option, but it's worth every penny. The other apps are all perfectly adequate, and some features, such as *Drive Genius's* live partition and duplicate file search functions, are useful enough. But *TechTool* has to be the overall winner.

Mac FORMAT Winner!

» HARD DISK rescue UTILITIES / At a glance

DiskTools Pro 3.0.2
★★★½☆

DiskWarrior 4.1.1
★★★☆☆



Drive Genius 2
★★★★☆

TechTool Pro 5
★★★★★

Mac FORMAT Winner!

SPECIFICATIONS				
Price	£49	£99	£69	£100
Latest price on TechRadar	www.techradar.com/611563	www.techradar.com/636233	www.techradar.com/589914	www.techradar.com/528167
Boot disk included	No	Yes	Yes	Yes
Disk defrag tool	Yes	No	Yes	Yes
S.M.A.R.T status monitoring	Yes	Yes	Yes	Yes
Reports	Yes	No	Yes	Yes
Benchmarking	Yes	No	Yes	No
RAM testing	No	No	No	Yes
Scheduling	Yes	No	No	No
Requirements	PowerPC G4 or later, 256MB of RAM, DVD drive, Mac OS X 10.3.9 or later	PowerPC G4 867MHz or later, 512MB of RAM, DVD drive, Mac OS X 10.3.9 or later	PowerPC G4 867MHz or later, 512MB of RAM, DVD drive, Mac OS X 10.4.9 or later	PowerPC G4 or later, 512MB of RAM, DVD Drive, Mac OS X 10.4.9 or later

» DISK UTILITY / Apple's own comes to the rescue

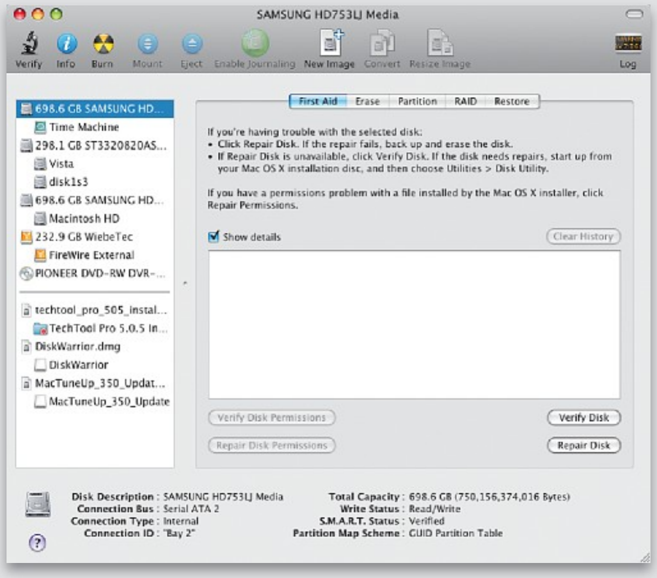
Apple supplies its own disk-management tool in the form of *Disk Utility*, which you can find in **Utilities** in your **Applications** folder. Over the years it's become increasingly feature-rich and a first port of call for many small disk problems. It's not just problems it can solve, though, as it contains backup and partitioning tools to boot.

If you can avoid spending up to £100 on a separate disk utility by using an Apple-made app, then you would think that makes sense. Well, yes and no… In the main, disk errors and problems are fairly minor ones that go away with a quick verify and/or a restart. In these situations *Disk Utility* is fine – you can verify the disk and disk permissions, and then repair them should any errors present themselves.

Not only this, but you can also create an image backup of your disk for security, while S.M.A.R.T status information can be viewed for any disk on your system. In truth, bar a critical disk issue, there aren't many circumstances that require you to spend money on a third-party utility.

However, the *Disk Utility* application is a basic beast and, apart from anything else, it gives you only very minimal recovery support. Verifying permissions isn't going to do much and checking the disk only really covers eight simplistic tests.

So, the main reason you're spending your hard-earned cash on a third-party utility is to extend the basic feature set that Apple gives you with *Disk Utility*. Obviously, some of the features are going to be duplicated, but overall you get a lot more for your money – extra features such as live partitioning and duplicate file removal, for instance.



SAMSUNG HD753LJ Media
Verify
Info
Burn
Mount
Eject
Enable Journaling
New Image
Convert
Resize Image
Log
698.6 GB SAMSUNG HD…
Time Machine
298.1 GB ST3320820AS…
Vista
disk1s3
698.6 GB SAMSUNG HD…
Macintosh HD
232.9 GB WiebeTec
FireWire External
PIONEER DVD-RW DVR-…
techtool_pro_505_instal…
TechTool Pro 5.0.5 In…
DiskWarrior.dmg
DiskWarrior
MacTuneUp_350_Updat…
MacTuneUp_350_Update
First Aid
Erase
Partition
RAID
Restore
Clear History
Verify Disk Permissions
Verify Disk
Repair Disk Permissions
Repair Disk

If you're having trouble with the selected disk:
- Click Repair Disk. If the repair fails, back up and erase the disk.
- If Repair Disk is unavailable, click Verify Disk. If the disk needs repairs, start up from your Mac OS X installation disc, and then choose Utilities > Disk Utility.

If you have a permissions problem with a file installed by the Mac OS X installer, click Repair Permissions.

☑ Show details

Disk Description : SAMSUNG HD753LJ Media
Connection Bus : Serial ATA 2
Connection Type : Internal
Connection ID : "Bay 2"
Total Capacity : 698.6 GB (750,156,374,016 Bytes)
Write Status : Read/Write
S.M.A.R.T. Status : Verified
Partition Map Scheme : GUID Partition Table

Disk Utility is useful for everyday tasks, but don't rely on it as a critical recovery tool.

Apple's *Disk Utility* is fine for the basics, but in a real emergency you'll wish you'd invested in a tool that goes that little bit further, especially when it's your data at risk. By all means rely upon *Disk Utility* for the day-to-day, mundane first-aid tasks, but remember that it's just the first step on a fairly steep ladder.

Mac User Groups

Find fellow Mac enthusiasts near you! Here's a list of the UK & Ireland MUGs

[1] Aberdeen MUG
Aberdeen
davidjearly@mac.com
www.abdnmug.co.uk

[2] Bristol & Bath MUG
Bath
info@bbmug.co.uk
www.bbmug.co.uk

[3] Berkshire & North Hampshire MUG
Reading area
i.j.burn@reading.ac.uk

[4] Blackburn MUG
Blackburn
info@bmug.co.uk
www.bmug.co.uk

[5] Bracknell-Forest MUG
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www.bfmuguk.org

[6] ClubMac Ireland
Dublin
secretary@clubmac.ie
www.clubmac.ie

[7] Cork University College
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d.murphy@cs.ucc.ie
www.ucc.ie/mug

[8] Cumbria Mac Enthusiasts
Barrow-in-Furness
CumbriaMacEnthusiasts@steel.clara.net
home.clara.net/steel/cme_home.htm

[9] Deaf Mac Users
Website group for the hard of hearing
nick@sturley.co.uk
http://tech.groups.yahoo.com/group/deaf-macs/

[10] Durham University MUG
Durham
durmac@durham.ac.uk
www.dur.ac.uk/durmac

[11] Edinburgh MUG
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www.edmug.org.uk

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[13] FAMUS (Fife)
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www.fifedirect.org.uk/famus

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www.potmug.com

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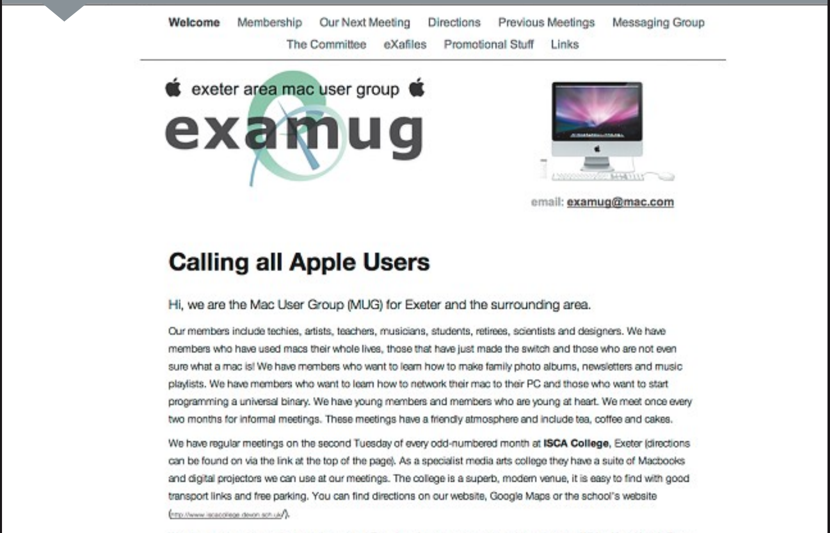
http://s-mug.com

[27] Southampton Uni
Southampton
trf.106@soton.ac.uk

[28] South Essex MUG
Wickford, Essex
chairman@seal-apple.co.uk
www.seal-apple.co.uk

MUG OF THE MONTH / Exeter Area MUG



email: examug@mac.com

Calling all Apple Users

Hi, we are the Mac User Group (MUG) for Exeter and the surrounding area.

Our members include techies, artists, teachers, musicians, students, retirees, scientists and designers. We have members who have used macs their whole lives, those that have just made the switch and those who are not even sure what a mac is! We have members who want to learn how to make family photo albums, newsletters and music playlists. We have members who want to learn how to network their mac to their PC and those who want to start programming a universal binary. We have young members and members who are young at heart. We meet once every two months for informal meetings. These meetings have a friendly atmosphere and include tea, coffee and cakes.

We have regular meetings on the second Tuesday of every odd-numbered month at **ISCA College**, Exeter (directions can be found on via the link at the top of the page). As a specialist media arts college they have a suite of Macbooks and digital projectors we can use at our meetings. The college is a superb, modern venue, it is easy to find with good transport links and free parking. You can find directions on our website, Google Maps or the school's website (http://www.iscacollege.devon.sch.uk/).

We also have social meetings on the second Tuesday of every even-numbered month at the **White Hart Hotel**, Exeter

Exeter Mac User Group has two types of meeting: regular meetings on the second Tuesday of every odd-numbered month and social meetings on every even-numbered month. The social meetings are an opportunity to meet like-minded Apple users, while the regular meetings are your chance to learn more about using a Mac. See **www.exeter.org.uk** for more details. ●

[29] South Wales MUG
Cardiff
swmug@applewiz.biz
www.swmug.org.uk

[30] Sneem MUG
Sneem
sean@smug.ie
www.smug.ie

[31] Stroud Mac User Group
Stroud
jmuy@aol.com

[32] Suffolk Mac User Group
Ipswich
mike@mikekwasniak.co.uk
suffolkmacusergroup.co.uk

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Swindon
swindonmacusergroup@googlemail.com
http://swindonmacusergroup.googlepages.com

[34] Surrey MUG
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info@3cmug.co.uk
www.3cmug.co.uk

[36] Wessex MUGs
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www.wamug.org.uk

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West Oxfordshire
witneymacusergroup@gmail.com
www.witneymacusergroup.webs.com

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Doncaster & other towns
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www.ymug.org

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Klondike Deal 1
Moves: 77
Score: -37
Time: 4:21
Stock: 6
New
Restart
Rules
Stats
Auto
Undo

"The iPod touch is upgraded, but not with a camera, as was widely predicted"

» APPLE iPOD TOUCH P118

HOW TO BUY

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Home office 123
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Games 123
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Buyers' Guide

- DESKTOPS
- LAPTOPS
- iPODS
- iPHONES
- SOFTWARE

Graham Barlow
Editor

All the new hardware updates from Apple have been to the iPod range, setting things firmly in place for the Christmas period. The big disappointment was that the iPod touch failed to get the video camera that had been widely predicted, but on the positive side, the iPod nano got one, and there was an FM radio thrown into the bargain too. See page 118.

We're hoping for another addition to Apple's Mac line-up before Christmas, although rumours of an iTablet have simmered down to the point where nobody is really expecting to see one before well into 2010 now. Will Apple pull something out of the bag at the last minute? We wouldn't be surprised, but simple memory, hard drive and speed increases to the current line-up wouldn't go amiss either.

Don't forget to pick up the next issue, where we'll bring you all the latest developments from the world of Apple.

» BUYING ADVICE YOU CAN TRUST

Our mission is to ensure that when you buy a Mac-related product, you are completely informed about its best and worst features. We have a cast-iron policy of editorial independence. **For the latest prices and full review see the TechRadar URL listed next to each review.**

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How to buy a new Mac

Not sure which Mac to buy? We'll help you make the right choice

» DID YOU KNOW THIS?

According to Apple, the Mac mini is 'the world's most energy-efficient desktop computer'. When it's idle, it uses less than 13 watts of power.

No new Macs this month, but Apple has not been idle. Snow Leopard arrived at the end of August and is reviewed on page 82. Given the speed and performance boost it offers for Intel Macs, you could argue this new version of OS X is a boost for every Mac in the current range.

The MacBook Pro range had quite an overhaul back in June, with an extended range of notebooks at more affordable prices. The incredible power we're used to with Apple's notebook family is there too. We got more power at lower prices, which is a welcome revision by any measure.

> "Desktop Macs are more powerful, but if you need to use your Mac on the go, Apple's notebooks certainly won't leave you disappointed"

There is now only one MacBook, and the MacBook Air duo has seen a processor boost. The changes complete the recent updates, which include a Mac mini with more power, hard-drive space and RAM. The iMac has more speed, RAM and hard-drive space up to 1TB and the Mac Pro now comes as either Quad-Core or 8-Core, offering the most powerful Mac yet.

Desktop Macs are more powerful, but Apple's notebooks won't leave you disappointed, either.

Making your mind up

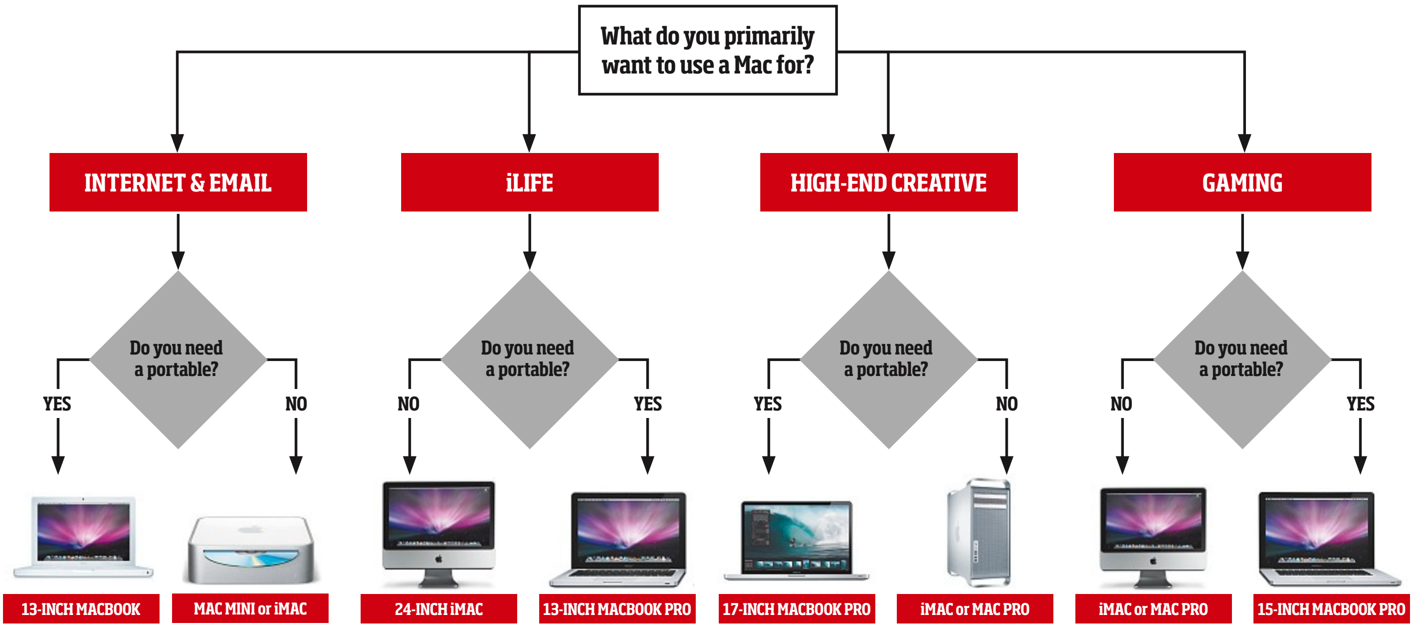
All Macs come with Intel Core 2 Duo chips as a minimum, so whichever Mac you choose you know it's powerful. So now you need to choose whether you need a notebook or a desktop. To work on the move, you need a notebook.

Notebook choice is between the MacBook Pro, MacBook and MacBook Air. The white MacBook is just £749, and with its 2.13GHz processor is great for less intensive work, such as using *iLife*. It's also ideal for students.

While the MacBook range has been downsized, the MacBook Pro family had been extended and is more affordable. The MacBook Pro is ideal for more processor-hungry work like video-editing or running 3D programs, as they run at higher speeds and have a faster hard drive. Starting us off are the 13-inch models with 2.26 or 2.53GHz processors and up to 4GB RAM. There are now three 15-inch versions to choose from: 2.53GHz, 2.66GHz or 2.8GHz. From £1,299, these mid-level MacBook Pros offer

Apple offers three choices of desktop Mac. The Mac mini may look tiny, but it packs a punch.

CHOOSING A MAC / WHICH ONE IS RIGHT FOR YOU?


What do you primarily want to use a Mac for?
INTERNET & EMAIL
iLIFE
HIGH-END CREATIVE
GAMING
Do you need a portable?
YES
NO
13-INCH MACBOOK
MAC MINI or iMAC
24-INCH iMAC
13-INCH MACBOOK PRO
17-INCH MACBOOK PRO
iMAC or MAC PRO
iMAC or MAC PRO
15-INCH MACBOOK PRO

more screen space than the 13-inch versions and improved graphics. They now have built-in SD card slots to import your digital photos. Finally we have the daddy of the family, the 2.8GHz 17-inch version with a 500GB hard drive and up to eight hours of wireless productivity. Finally, the thin and light 13-inch MacBook Air has seen a speed boost and price drop. It does lack a built-in DVD drive and only has one USB 2.0 port, but it's ideally suited to a regular business traveller who takes advantage of wireless networking. An external SuperDrive will set you back an extra £64.

Mac desktops

If you want a desktop Mac, you have the choice of a Mac mini, iMac or Mac Pro. If you're on a budget or desk space is limited, go for a Mac mini. For £499 you get a 2.0GHz machine with 1GB RAM and 120GB hard drive, or a 2.0GHz with 2GB RAM and 320GB hard drive for £649. You will need a monitor, keyboard and mouse, though.

The iMac comes in four flavours: 20-inch 2.66GHz, 24-inch 2.66GHz, 24-inch 2.93GHz or 24-inch 3.06GHz with a 1TB hard drive, from £949. These all-in-ones almost rival a Mac Pro, although for really intensive work you need to buy Apple's high-end Mac. With a basic spec of one Quad-Core 2.66GHz Intel Xeon processor, there's nothing you can't throw at a Mac Pro. With numerous configuration options, you can be sure the Mac you order is built to your requirements. Prices start from £1,899, but with the options of 32GB RAM upgrades and larger hard drives, you could spend a fortune. If you opt for a Mac mini or Mac Pro, you'll need a display, and Apple's Cinema Displays are ideal, with the 30-inch HD display at £1,173 or the 24-inch LED display at £635.

All Macs come with Mac OS X 10.6 Snow Leopard and the *iLife '09* suite. ●

> *"The 2.66GHz 17-inch MacBook Pro lasts up to eight hours on one charge, so it's even better for working on the move than ever before"*

DID YOU KNOW THIS?

The MacBook Pro range features a battery that gives up to seven hours of power on a single charge (eight for the 17-inch MBP).

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20-inch 2.66GHz

£949

- 2.66GHz Intel Core 2 Duo
- 20-inch glossy widescreen (1,680x1,050 pixels)
- 2GB RAM (2x 1GB DDR3 SDRAM) • 320GB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 memory • 4x USB 2.0 ports; 1x FireWire 800 • Ships with Mac OS X Snow Leopard, iLife '09, Front Row, Photo Booth, Mighty Mouse and keyboard

24-inch 2.93GHz

£1,499

- 2.93GHz Intel Core 2 Duo
- 24-inch glossy widescreen (1,920x1,200 pixels)
- 4GB RAM (2x 2GB DDR3 SDRAM) • 640GB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce GT 120 with 256MB of GDDR3 memory • 4x USB 2.0 ports; 1x FireWire 800 • Ships with Mac OS X Snow Leopard, iLife '09, Front Row, Photo Booth, Mighty Mouse and keyboard

Updated September 2009

iMac

24-inch 2.66GHz

£1,199

- 2.66GHz Intel Core 2 Duo
- 24-inch glossy widescreen (1,920x1,200 pixels)
- 4GB RAM (2x 2GB DDR3 SDRAM) • 640GB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 memory • 4x USB 2.0 ports; 1x FireWire 800 • Ships with Mac OS X Snow Leopard, iLife '09, Front Row, Photo Booth, Mighty Mouse and keyboard

24-inch 3.06GHz

£1,799

- 3.06GHz Intel Core 2 Duo
- 24-inch glossy widescreen (1,920x1,200 pixels)
- 4GB RAM (2x 2GB DDR3 SDRAM) • 1TB hard drive
- 8x double-layer SuperDrive (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce GT 130 with 512MB of GDDR3 memory • 4x USB 2.0 ports; 1x FireWire 800 • Ships with Mac OS X Snow Leopard, iLife '09, Front Row, Photo Booth, Mighty Mouse and keyboard

»DID YOU KNOW THIS?

Despite being tiny, the latest Mac mini from Apple now has five USB 2.0 ports and one FireWire 800 port.

2.0GHz 120GB

£499

- 2.0GHz Intel Core 2 Duo
- 1GB RAM (1x 1GB DDR3 SDRAM) • 120GB Serial ATA, 5,400 rpm hard drive
- 3MB shared L2 cache
- NVIDIA GeForce 9400M with 128MB of shared DDR3 SDRAM
- 8x double-layer SuperDrive (DVD+R DL/DVD±RW/CD-RW)
- AirPort Extreme (802.11n)
- 1x FireWire 800 port
- 5x USB 2.0 • Mac OS X Snow Leopard, iLife '09
- Mini-DVI to DVI adaptor

Updated September 2009

Mac mini

2.0GHz 320GB

£649

- 2.0GHz Intel Core 2 Duo
- 2GB RAM (2x 1GB DDR3 SDRAM) • 320GB Serial ATA, 5,400 rpm hard drive
- 3MB shared L2 cache NVIDIA GeForce 9400M with 256MB of shared DDR3 SDRAM
- 8x double-layer SuperDrive (DVD+R DL/DVD±RW/CD-RW)
- AirPort Extreme (802.11n)
- 1x FireWire 800 port
- 5x USB 2.0 • Mac OS X Snow Leopard, iLife '09
- Mini-DVI to DVI adaptor

Mac Pro

Quad-Core

£1,899

• 2.66GHz Quad-Core Intel Xeon • 3GB RAM (3x 1GB DDR3 ECC SDRAM) • NVIDIA GeForce GT 120 with 512MB of GDDR3 with Mini DisplayPort and dual-link DVI video output • 640GB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD±RW/CD-RW) • 3x open full-length PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FireWire 800 ports • Keyboard & Mighty Mouse

8-Core

£2,499

• 2x 2.66Hz Quad-Core Intel Xeon • 6GB RAM (6x 1GB DDR3 ECC) • NVIDIA GeForce GT 120 with 512MB of GDDR3 with Mini DisplayPort and dual-link DVI video output • 640GB 7,200rpm Serial ATA 3Gb/s • 18x SuperDrive with double-layer support (DVD+R DL/DVD± RW/CD-RW) • 3x open full-length PCI Express 2.0 expansion slots • 5x USB 2.0; 4x FireWire 800 ports • Keyboard & Mighty Mouse

Updated March 2009

13-inch 2.26GHz

£899

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.26GHz Intel Core 2 Duo 3MB shared L2 cache • 2GB (2x 1GB DDR3 SDRAM) • 160GB, 5,400rpm Serial ATA • SuperDrive 8x (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 SDRAM • Precision aluminium unibody • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

13-inch 2.53GHz

£1,149

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.53GHz Intel Core 2 Duo 3MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 250GB, 5,400rpm Serial ATA • SuperDrive 8x (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB DDR3 SDRAM • Precision aluminium unibody • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

15-inch 2.53GHz

£1,299

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.53GHz Intel Core 2 Duo 3MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 250GB, 5,400rpm Serial ATA • SuperDrive 8x (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB GDDR3 memory • Precision aluminium unibody • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

15-inch 2.66GHz

£1,499

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.53GHz Intel Core 2 Duo 3MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 320GB, 5,400rpm Serial ATA • SuperDrive 8x • NVIDIA GeForce 9400M with 256MB GDDR3 memory + 9600M GT with 256MB GDDR3 memory • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card slot

13-inch 1.86GHz

£1,149

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 1.86GHz Intel Core 2 Duo processor • 2GB DDR3 SDRAM • 120GB Serial ATA, 4,200rpm • Built-in 802.11n WiFi and Bluetooth 2.1 + EDR • NVIDIA GeForce 9400M with 256MB shared DDR3 SDRAM • Mac OS X Snow Leopard • 1x USB 2.0 port • Mini DisplayPort • MagSafe power adaptor

13-inch 2.13GHz

£1,349

• 13.3-inch LED-backlit glossy widescreen 1,280x800 pixels • 2.13GHz Intel Core 2 Duo processor • 2GB DDR3 SDRAM • 128GB solid-state drive • Built-in 802.11n WiFi and Bluetooth 2.1 + EDR • NVIDIA GeForce 9400M with 256MB shared DDR3 SDRAM • Mac OS X Snow Leopard • 1x USB 2.0 port • Mini DisplayPort • MagSafe power adaptor

13-inch white 2.13GHz

£749

• 13.3-inch glossy widescreen, 1,280x800 pixels • 2.13GHz Intel Core 2 Duo • 3MB shared L2 cache • 2GB RAM (2x DDR2SDRAM) • 160GB Serial ATA,5,400rpm • 8x SuperDrive (DVD±R DL/DVD±RW/CD-RW) • NVIDIA GeForce 9400M with 256MB shared DDR2 SDRAM • AirPort Extreme • Built-in iSight video camera • Bluetooth 2.0

15-inch 2.8GHz

£1,699

• 15.4-inch LED-backlit glossy widescreen 1,440x900 pixels • 2.8GHz Intel Core 2 Duo 6MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 500GB, 5,400rpm Serial ATA • SuperDrive 8x • NVIDIA GeForce 9400M with 256MB GDDR3 memory + 9600M GT with 512MB GDDR3 memory • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 2x USB 2.0, 1x SD card

17-inch 2.8GHz

£1,849

• 17-inch LED-backlit glossy widescreen 1,920x1,200 pixels • 2.8GHz Intel Core 2 Duo 6MB shared L2 cache • 4GB (2x 2GB DDR3 SDRAM) • 500GB, 5,400rpm Serial ATA • SuperDrive 8x • NVIDIA GeForce 9400M with 256MB DDR3 SDRAM + 9600M GT with 512MB GDDR3 memory • Mac OS X Snow Leopard and iLife '09 • 1x FireWire 800, 3x USB 2.0, 1x ExpressCard/34 slot

MacBook Air

MacBook

Updated September 2009

MacBook Pro

iPod
Music
Videos
Photos
Podcasts
Extras
Settings
Shuffle Songs
Now Playing
MENU
9:42 AM
Akon
Beautiful
Freedom
3:40
-1:32
2 of 14
MENU

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> *"The latest iPod nano offers a larger screen, at 2.2 inches corner to corner, as well as an FM radio with Live Pause functionality"*

How to buy an iPod

The iPod family has never looked better; we help you find your ideal model

This month the iPod range gets an update, with the nano enjoying the most significant revision. Its new camera captures audio as well as video, but it can't take still photographs. The latest nano also offers a larger screen, at 2.2 inches corner to corner, and an FM radio with Live Pause functionality.

The shuffle's VoiceOver feature makes its way to the nano too, so you can navigate through your artists, songs and playlists without looking at the screen. Curiously, although the 16GB nano has dropped in price to £135 from £146, the 8GB model is up to £115 from £107, making the higher-capacity nano a much more attractive option.

The iPod shuffle has had a minor update. You now have five colours to choose from, not just black or grey. It comes in two capacities, a 2GB model for £45 and a 4GB version for £59. For our money, the 4GB shuffle is better value. If you're feeling rich, there's a special edition iPod shuffle stainless steel model, which is available exclusively from Apple stores (including online) and costs £75. It's very shiny, but considering that it's functionally identical to the standard 4GB model, is it really worth the extra money?

Keeping in touch

The iPod touch has been upgraded, but not with a camera, as was widely predicted. The 16GB model has been dropped and a new 64GB version added. The 32GB model has been reduced in price to £229 from £283, and the 8GB version is down to £149 from £165. The new 32GB and 64GB iPod touch models feature improved performance and support for OpenGL ES Version 2.0 graphics, which is great news for gamers. Now your games can offer more realistic textures and even greater detail.

And finally, don't forget the classic. At £189 for 160GB, it still offers the best cost-per-GB ratio of any iPod. ●

Updated September 2009

iPod classic

iPod classic 160GB

£189

- Up to 40,000 songs
- Up to 25,000 photos
- Up to 200 hours of video
- Available in black and silver
- 2.5-inch screen
- 320x240 pixels
- Battery lasts up to 36 hours (audio)
- Battery lasts up to 6 hours (video)
- 103.5x61.8x10.5mm
- 140g

iPod nano 8GB

£115

- Up to 2,000 songs
- Up to 7,000 photos
- Up to 8 hours of video
- Available in silver, black, purple, blue, green, yellow, orange, pink and PRODUCT (RED) • 2.2-inch diagonal screen • 320x240 pixels
- Battery lasts up to 24 hours (audio) or 4 hours (video)
- Includes camera & FM radio
- 90.7x38.7x6.2mm
- 36.8g

iPod nano 16GB

£135

- Up to 4,000 songs
- Up to 14,000 photos
- Up to 16 hours of video
- Available in silver, black, purple, blue, green, yellow, orange, pink and PRODUCT (RED) • 2.2-inch diagonal screen • 320x240 pixels
- Battery lasts up to 24 hours (audio) or 4 hours (video)
- Includes camera & FM radio
- 90.7x38.7x6.2mm
- 36.8g

Updated September 2009

iPod nano

iPod shuffle

Updated September 2009

iPod shuffle 2GB

£45

- Up to 500 songs
- No ability to display photos or videos
- Available in a range of colours
- No screen
- VoiceOver technology enables iPod to talk to you
- Battery lasts up to 10 hours (audio)
- 45.2x17.5x7.8mm
- 10.7g

iPod shuffle 4GB

£59

- Up to 1,000 songs
- No ability to display photos or videos
- Available in a range of colours
- No screen
- VoiceOver technology enables iPod to talk to you
- Battery lasts up to 10 hours (audio)
- 45.2x17.5x7.8mm
- 10.7g

iPhone

Updated June 2009

Voice Control
call
play
shuffle
Cancel
315° NW
8 of 38
Trim

iPhone 3G 8GB

£342.50

- Available in black
- 3.5-inch widescreen
- 320x480 pixels • WiFi (802.11b/g)• Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR Battery lasts up to 24 hours (audio) • Battery lasts up to 7 hours (video) • Battery lasts up to 10 hours (talktime)
- 300 hours (standby)
- 115.5x62.1x12.3mm • 133g

For contract and tariff info go to **www.o2.co.uk**

iPhone 3GS 16GB

£440.40

- Available in black or white
- 3.5-inch widescreen
- 320x480 pixels • WiFi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR
- Photo and video geotagging
- Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime)
- 115.5x62.1x12.3mm • 135g

For contract and tariff info go to **www.o2.co.uk**

iPhone 3GS 32GB

£538.30

- Available in black or white
- 3.5-inch widescreen
- 320x480 pixels • WiFi (802.11b/g) • Quad-band GSM, tri-band 3G • Assisted GPS • Bluetooth 2.0 + EDR
- Photo and video geotagging
- Battery lasts up to 30 hours (audio) • Battery lasts up to 10 hours (video) • Battery lasts up to 12 hours (talktime)
- 115.5x62.1x12.3mm • 135g

For contract and tariff info go to **www.o2.co.uk**

Updated September 2009

iPod touch

iPod touch 8GB

£149

- Up to 1,750 songs
- Up to 10,000 photos
- Up to 10 hours of video
- Available in black
- 3.5-inch screen
- 320x480 pixels
- WiFi (802.11b/g)
- Nike + iPod support
- Battery lasts up to 22 hours (audio) • Battery lasts up to 5 hours (video)
- 110x61.8x8mm
- 120g

iPod touch 32GB

£229

- Up to 7,000 songs
- Up to 25,000 photos
- Up to 40 hours of video
- Available in black
- 3.5-inch screen
- 320x480 pixels
- WiFi (802.11b/g)
- Nike + iPod support
- Battery lasts up to 22 hours (audio) • Battery lasts up to 5 hours (video)
- 110x61.8x8mm
- 120g

iPod touch 64GB

£299

- Up to 14,000 songs
- Up to 50,000 photos
- Up to 80 hours of video
- Available in black
- 3.5-inch screen
- 320x480 pixels
- WiFi (802.11b/g)
- Nike + iPod support
- Battery lasts up to 22 hours (audio) • Battery lasts up to 5 hours (video)
- 110x61.8x8mm
- 120g

>> iPHONE vs iPOD TOUCH

The iPhone is not just a phone – it's also a great iPod. Steve Jobs even called it "the best iPod Apple has ever made". But at 8GB the iPhone 3G is not capacious, which is annoying as the 3.5-inch screen just calls out for you to load it up with bulky video files. The latest iPhone 3GS comes in a 32GB size, which is more like the kind of capacity you need for movies, but there are some key differences between the iPod touch and iPhone.

The obvious one, of course, is that the iPod touch doesn't have the ability to make phone calls. Fair enough, but remember that this also means that the iPod touch users won't have access to the internet – browsing, updating weather and stock widgets and sending and receiving email – when out of range of a WiFi hotspot.

The payoff is that an iPhone costs a lot more, and you also have to pay for the data you use. You either have to take out a contract with O2 or buy it on Pay & Go from £342.50.

The iPod touch currently lacks many of the iPhone's features, including a camera, voice control and digital compass. Rumours that a camera would be included in a future iPod touch were not confirmed in the September 2009 update, but it may happen in the future. To find out more about iPhone 3GS tariffs visit **www.o2.co.uk**.

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BUYERS' GUIDE

KEYBOARDS & MICE

Apple Wireless Keyboard

★★★★★

Price: £48 **Reviewed:** Issue 189
Web: www.apple.com/uk
Full review: www.techradar.com/53760
Key specs: Dimensions: 27x11.5x1.43cm; Connections: Bluetooth only; Power: 3x AA batteries; Requires Mac OS X 10.4.10

⊕ Stunning; wireless; easy to type on; compact
⊖ Needs Mac OS X 10.4.10 to work

"The Wireless Keyboard is superb in every way. It's another design classic from the Apple creative team."

Wacom Intuos4 L ★★★★★

Price: £430 **Reviewed:** Issue 208
Full review: www.techradar.com/590021
Key specs: 5,080lpi res; 2,083 levels of sensitivity
⊕ Sensational technology; dynamic OLEDs
⊖ Expensive; previous tools incompatible

Macally mGlide ★★★★☆

Price: £25 **Reviewed:** Issue 212
Full review: www.techradar.com/619206
Key specs: Wireless operation; small form factor
⊕ Perfect match for your Apple keyboard
⊖ It's a little small

ALL-IN-ONES

Canon PIXMA MP620

★★★★½

Price: £108 **Reviewed:** Issue 202
Web: www.canon.co.uk
Full review: www.techradar.com/477048
Key specs: Printer (9,600x2,400dpi, 5-ink printing); scanner (2,400x4,800spi); 150 sheets in rear tray and 150 in cassette

⊕ Great print quality; easy to use; good value for money
⊖ WiFi needs to be set up over USB

"The mix of stellar print quality and intelligent design decisions means that the Canon MP620 is a great buy."

HP Officejet Pro 8500 ★★★★☆

Price: £245 **Reviewed:** Issue 210
Full review: www.techradar.com/603509
Key specs: Printer/scanner/email; 4,800dpi
⊕ Packed with features; great text printing
⊖ Average photo printing; expensive

Lexmark E260dn ★★★★☆

Price: £230 **Reviewed:** Issue 213
Full review: www.techradar.com/268952
Key specs: Mono laser printer.
⊕ Cheap to run, easy set-up and great text quality
⊖ Simple feature set

DISPLAYS

Apple Cinema Display

★★★½☆

Price: £635 **Reviewed:** Issue 205
Web: www.apple.com/uk
Full review: www.techradar.com/500220
Key specs: 24-inch LED screen, 1,920x 1,200, 16.7 million colours, three self-powered USB ports, iSight camera

⊕ Beautiful colour reproduction; impressive sound; oozes quality
⊖ Display stand needs revamping; only for Macs with Mini DisplayPort

"An incredible piece of kit for Macs with a Mini DisplayPort. Screen quality is first rate, with great consistency."

Samsung 2233SW ★★★★½

Price: £162 **Reviewed:** Issue 213
Full review: www.techradar.com/628604
Key specs: Low-cost SyncMaster monitor
⊕ Excellent value for money
⊖ No speakers

Hanns G Hi221DP ★★★★☆

Price: £125 **Reviewed:** Issue 213
Full review: www.techradar.com/500421
Key specs: 22-inch widescreen, 1,680x1,050 res
⊕ A solid performer; good looking
⊖ Terrible built-in audio

SPEAKERS/HEADPHONES

Sennheiser CX 300-II

★★★★★

Price: £19 **Reviewed:** Issue 207
Web: www.sennheiser.co.uk
Full review: www.techradar.com/562193
Key specs: Frequency response 19Hz-21KHz; Impedance 16Ω; Weight 4g; Extras: three sets of cups and carry pouch

⊕ Superb value; great audio at a bargain price
⊖ Slightly flabby bass; there are better buds around, but not at this price

"We can't say it loudly or plainly enough: buy a set of Sennheiser CX 300-II. Accomplished sound, and cheap."

Revo Blok ★★★★½

Price: £195 **Reviewed:** Issue 209
Full review: www.techradar.com/593649
Key specs: Aux input for all recent iPods
⊕ Rich, deep sound; excellent remote
⊖ Not for iPhone; can't sync with Mac

s-JAYS SIREN Armature ★★★★☆

Price: £40 **Reviewed:** Issue 208
Full review: www.techradar.com/589807
Key specs: Frequency Response: 20Hz - 20,000 Hz
⊕ Very comfortable
⊖ Slightly underpowered bass response

» DIGITAL CAMERAS

Canon EOS 500D

★★★★☆

Price: £544 (body) **Reviewed:** Issue 209
Web: www.canon.co.uk
Full review: www.techradar.com/596771
Key specs: 15.1MP; 4,752x3,168 res; HD recording; Card formats: SD, SDHC; File formats: JPEG, RAW.

⊕ Increased ISO sensor; HD DV recording; 3-inch LCD
⊖ High price; no external mic socket for video

"If you're happy to pay for the privilege of high-quality movies, this EOS is a great buy."

Olympus μ Tough 8000 ★★★★☆

Price: £252 **Reviewed:** Issue 210
Full review: www.techradar.com/603073
Key specs: 12MP; 5-18.2mm lens
⊕ Waterproof to 10m; shockproof; good wide angle
⊖ Controls are awkward to use

Jobo photoGPS ★★★½☆

Price: £113 **Reviewed:** Issue 207
Full review: www.techradar.com/567177
Key specs: Accuracy: 10m; Recording time: 0.2 secs
⊕ Convenient geotagging for Places
⊖ Too expensive

» DIGITAL VIDEO CAMERAS

Samsung VP-HMX 20C

★★★★☆

Price: £498 **Reviewed:** Issue 202
Web: www.samsung.com/uk
Full review: www.techradar.com/528224
Key specs: 2.7-inch LCD; movie capture at 2.1MP and still image at up to 4MP; HD lens delivering 10x optical and 10x digital zoom

⊕ Good screen; lightweight; offers full HD resolution
⊖ Really need to shop around to find affordable price

"This lightweight HD camera captures high-quality video and still images. Its 80GB internal memory is a plus point."

Canon HV30 ★★★★½

Price: £599 **Reviewed:** Issue 201
Full review: www.techradar.com/468942
Key specs: HDV; DIGIC II processor; MiniDV/SD card
⊕ Superb stills and video; better than HDD
⊖ Cumbersome to use

Panasonic SDR-S26 ★★★☆☆

Price: £179 **Reviewed:** Issue 207
Full review: www.techradar.com/561668
Key specs: Sensor: 1/8 inch CCD; Compression: MPEG-2
⊕ Small enough to fit in coat pocket
⊖ Files need converting to play on Mac

» ROUTERS/NETWORKING

AVM FRITZ!Box 7270

★★★★★

Price: £180 **Reviewed:** Issue 212
Web: www.fritzbox.eu
Full review: www.techradar.com/621127
Key specs: 1x USB 2.0, 4x Ethernet, 1x WAN; 802.11n; modem supports ADSL and ADSL2; integrated DECT base station

⊕ Packed with features, including impressive array of telephony functions
⊖ No simultaneous dual band

"The router's advanced traffic-shaping feature really impressed. An extremely high quality piece of kit."

Iomega Home Media ★★★★☆

Price: £102 **Reviewed:** Issue 207
Full review: www.techradar.com/577291
Key specs: 500GB; 1x Gigabit Ethernet; 1x USB 2.0
⊕ Easy to set up and use; elegant interface
⊖ Can't set up playlists

Billion BiPAC P104 ★★★★☆

Price: £85 **Reviewed:** Issue 207
Full review: www.techradar.com/560834
Key specs: Transfer rate up to 200Mbps
⊕ Great alternative to WiFi
⊖ Bulky, though this is inevitable

» STORAGE

My Book Studio II 4TB

★★★★½

Price: £420 **Reviewed:** Issue 212
Web: www.wdc.com
Full review: www.techradar.com/618319
Key specs: 4TB; USB 2.0, FireWire 400/800 and eSATA connectivity; can be reconfigured to different RAID settings

⊕ Four terabytes; triple interface
⊖ Not exactly cheap; chassis is a little flimsy

"Impressive performance and connection for those who need extra space. Pleasantly styled and easy on the eye."

Buffalo TeraStation III 2TB ★★★★☆

Price: £635 **Reviewed:** Issue 210
Full review: www.techradar.com/604216
Key specs: 2TB capacity; 2x Gigabit Ethernet
⊕ Fast read/write performance; huge storage space
⊖ Expensive even for capacity; flimsy door

Apple Time Capsule 2TB ★★★★☆

Price: £379 **Reviewed:** Issue 213
Full review: www.techradar.com/629850
Key specs: 1x USB 2.0, 3x Ethernet, 1x WAN
⊕ Simultaneous dual band; high capacity
⊖ No built-in modem

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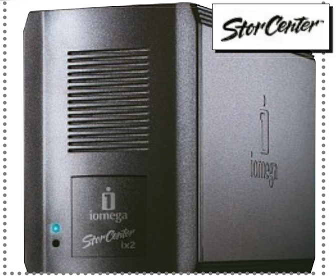

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BUYERS' GUIDE

» iPOD ACCESSORIES

Belkin TuneBase FM

★★★★★

Price: £56 **Reviewed**: Issue 213
Web: www.belkin.com
Full review: www.techradar.com/628966
Key specs: A very cheap way of integrating your iPhone into your in-car music system

⊕ ClearScan; RDS; can charge other USB device; great build quality
⊖ FM signal can be crackly, and sometimes drops out altogether

"As a cheap way of tying your iPhone into your car's system, it can't be beat."

Macally PowerLink 3-in-1 ★★★★☆

Price: £36 **Reviewed:** Issue 206
Full review: www.techradar.com/527653
Key specs: Functions as 2GB flash drive & data cable
⊕ Ideal emergency solution; useful trio of features
⊖ Loose caps are easily lost, and a little expensive

RothDock ★★★★☆

Price: £70 **Reviewed:** Issue 211
Full review: www.techradar.com/611361
Key specs: Also compatible with iPhone 3G/3GS
⊕ No configuration needed; remote control
⊖ No video streaming

» MAC ACCESSORIES

Shure PG27 USB Mic

★★★★☆

Price: £139 **Reviewed**: Issue 211
Web: www.shure.co.uk
Full review: www.techradar.com/611534
Key specs: Frequency response: 20Hz-20kHz; Pattern: cardioid polar; Attenuation; 0db /-20db

⊕ Great range of sound; easy to set up; on-mic monitoring capability
⊖ Single microphone use only

"Shure's PG27 mic represents the new breed of USB-based active mics. If you're after a single-mic setup, it's great."

Elgato turbo.264 HD ★★★★½

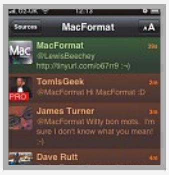
Price: £128 **Reviewed**: Issue 209
Full review: www.techradar.com/596751
Key specs: Output: iPod high/standard; iPhone; PSP
⊕ Super-fast H.264 encoding
⊖ No longer supports PowerPCs; expensive

Sanho HyperMac 222Wh ★★★★★

Price: £302 **Reviewed**: Issue 212
Full review: www.techradar.com/619294
Key specs: 222 watt-hours; Weight: 4.7lbs
⊕ Charges internal batteries; can power iPhone
⊖ Expensive; high-capacity models are very heavy

» iPHONE APPLICATIONS

Twitterrific Premium



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TomIsGeek @MacFormat Hi MacFormat :D
James Turner @MacFormat Witty bon mots. I'm sure I don't know what you mean! :-)
Dave Rutt

★★★★½

Price: £2.39 **Reviewed**: Issue 210
Web: www.iconfactory.com
System reqs: iPhone OS 2.2 or later
Available from the App Store, directly through your iPhone or via iTunes.

⊕ Lovely interface; beefed-up features list; support for multiple accounts
⊖ Reposting between accounts is tricky; basic stuff needs configuring

"An application that definitely repays the time spent exploring it. A firm favourite."

Birdhouse ★★★★★

Write
"To tweet, or not to tweet: that is the question"
-Shak

Price: £2.39 **Reviewed**: Issue 209
System reqs: iPhone OS 2.1

⊕ Draft multiple Twitter notes before you tweet
⊖ Only useful if you are a complete Twitter addict

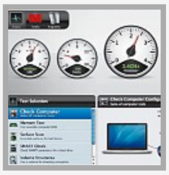
Documents To Go ★★★★☆

Price: £2.99 **Reviewed**: Issue 211
System reqs: iPhone OS 2.0

⊕ A great option for creating and editing text docs
⊖ No support for RTF files; cannot edit Excel files

» SYSTEM UTILITIES

Micromat TechTool Pro 5



★★★★★

Price: £90 **Reviewed:** Issue 206
Web: www.micromat.com
Full review: www.techradar.com/528167
System reqs: PPC G4 or G5 or any Intel Mac; OS X 10.4.9 or later; DVD ROM drive; Quartz Extreme graphics support

⊕ Fast and stable; comprehensive tools; proactive alerts and monitors
⊖ Updated FTP disappoints

"If your budget can only accommodate one commercial system utility, make it TechTool Pro 5."

Prosoft Drive Genius 2 ★★★★½

Drive Genius 2
PRO

Price: £68 **Reviewed:** Issue 208
Full review: www.techradar.com/589923
System reqs: G4, G5 or Intel; OS X 10.4.9 or later
⊕ Comprenhensive set of tools
⊖ RAID not supported

DiskTools Pro 3.0.2 ★★★★☆

Price: £37 **Reviewed:** Issue 211
Full review: www.techradar.com/611578
System reqs: G4 or later; OS X 10.3.9 or later
⊕ Great interface; packed with features
⊖ Can't use on networked volume

HOME OFFICE

Apple iWork '09

★★★★☆
Price: £69 **Reviewed:** Issue 205
Web: www.apple.com/uk
Full review: www.techradar.com/500293
System reqs: G4 (500MHz or faster) processor, Mac OS X 10.4.11 or later, 512MB RAM (1GB recommended).

➕ Keynote is a market leader, and the rest of the apps are catching up
➖ Both Numbers and Pages still lack some basic features

"The '09 update sees some good features added and some general improvements. Worth it for Keynote alone."

APP4MAC Twin 1.01 ★★★★★

Price: £25 **Reviewed:** Issue 211
Full review: www.techradar.com/611922
System reqs: Power PC G4, G5/Intel Mac
➕ Back up to multiple destinations; easy to use
➖ None

FileMaker Pro 10 ★★★★★

Price: £261 **Reviewed:** Issue 205
Full review: www.techradar.com/500402
System reqs: G4/G5; 256MB RAM; OS X 10.4.11
➕ Script triggers; customisable toolbar; SMTP
➖ Lacks platform-specific look and feel

VISUAL TOOLS & LAYOUT

BeLight Printfolio

★★★★½
Price: £49 **Reviewed:** Issue 208
Web: www.belightsoft.com
Full review: www.techradar.com/589659
System reqs: Mac OS X 10.4 or higher; 204MB hard drive space. Product is available in English or German.

➕ Comprehensive range of apps, as user-friendly as it could possibly be
➖ Not great at exporting between them

"An excellent suite of design apps, offering professional results at a hobbyist price."

ImageWell 3.7.1 ★★★★½

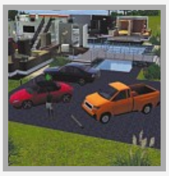
Price: $20 (£14) **Reviewed:** Issue 209
Full review: www.techradar.com/595105
System reqs: Mac OS X 10.4.9 or later
➕ Efficient and feature rich; decent web tools
➖ Ugly, clunky interface

Dream Capture ★★★★☆

Price: £7 **Reviewed:** Issue 211
Full review: www.techradar.com/611327
System reqs: G5 Mac; 3.5MB disk space
➕ Instantly saved videos; good value for money
➖ Some file sizes very large

GAMES

The Sims 3



★★★★★
Price: £40 **Reviewed:** Issue 211
Web: www.eagames.com
System reqs: Intel Core Duo processor; 2GB RAM; Mac OS X 10.5.7; ATI X1600 or NVIDIA 7300 GT; 128MB VRAM; or GMA X3100 (GMA 950 not supported)

➕ Looks great; more customisable; goals-based gameplay; easy to explore
➖ It should be an online game; there are no pets

"Hopefully The Sims 4 will be a fully-interactive online game. In the meantime, The Sims 3 is the perfect sequel."

And Yet It Moves ★★★★★

Price: €12 (£11) **Reviewed:** Issue 209
Web: www.andyetitmoves.net
System reqs: G4/G5/Intel 2GHz; 1GB RAM; OS X 10.4
➕ Looks and sounds great; interesting gameplay
➖ Too short

Qwak ★★★★★

Price: £13 **Reviewed:** Issue 210
Web: www.qwak.co.uk
System reqs: 5.5MB hard drive space
➕ Old-school gameplay, 80-plus levels
➖ It's all about points

MULTIMEDIA SOFTWARE

Apple iPhoto '09

★★★★★
Price: £69 (iLife '09) **Reviewed:** Issue 206
Web: www.apple.com/uk
Full review: www.techradar.com/527969
System reqs: PowerPC G4 or G5, or any Intel Mac; 512MB RAM (1GB recommended); Mac OS X 10.5.6 or later; 4GB HDD space.

➕ Practical tools, new options to export slideshow, Places a useful addition
➖ Faces could be better, few cameras have GPS

"The new features are great, but there's some room for improvement in the Faces facial-recognition facility."

Apple Logic Studio ★★★★★

Price: £399 **Reviewed:** Issue 213
Full review: www.techradar.com/625541
System reqs: Intel Mac; 1GB RAM; Mac OS X 10.5.7
➕ Powerful music studio; great tools; good value
➖ Some minor bugs in the initial release

Anime Studio Debut 6 ★★★★☆

Price: £31 **Reviewed:** Issue 211
Full review: www.techradar.com/611940
System reqs: G4+; 256MB RAM; OS X 10.4.
➕ Excellent features and tutorials
➖ No texture mapping or lighting

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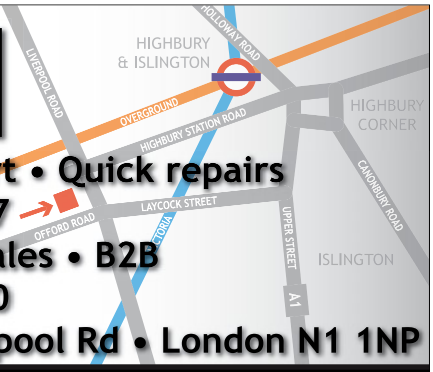
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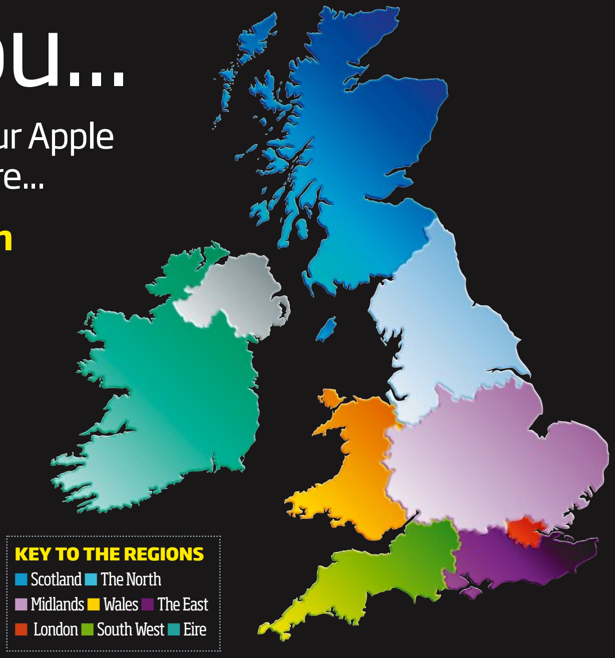

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COMING SOON

Next month:
20
top Mac problems solved!

PLUS! The most common Snow Leopard problems solved

Satnav on the iPhone

Is it a viable solution and which app is best?

Mac FORMAT
ON SALE
Wednesday
11 November
2009

DISCOVER HOW TO...

- Create new keyboard shortcuts
- Read eBooks on your Mac
- Add chapter markers in iMovie

ALL THIS AND MORE!

Contents subject to change

On the disc

● FULL SOFTWARE ● EXCLUSIVE DEMOS ● ESSENTIAL SHAREWARE ● READER OFFERS

Welcome to the disc

Issue 214

Turn-based strategy games (TBS) generally take the form of a wargame with a large undercurrent of tactics, where each player resolves to take turns. Of course this is not to be confused with real-time strategy (RTS), where all those involved play simultaneously. One of the leading pioneers of the TBS gaming genre is Sid Meier who designed the first of the *Civilization* series and then developed sequels thereafter.

The fourth and latest installment is included in demo form on your disc. As the player, you're tasked with building an empire from a small amount of resources. You're then expected to expand this into an empire and contend with rival nations. It's possible to win the game through a myriad of ways and if you don't manage this, the player with the highest score is crowned the winner.

"You're then expected to expand this into an empire and contend with rival nations…"

Install this demo on your Mac and you'll be able to run through a tutorial and play 100 turns of the full game. So what are you waiting for? See if you can be the first to land a sleeper ship in the Alpha Centauri star system.

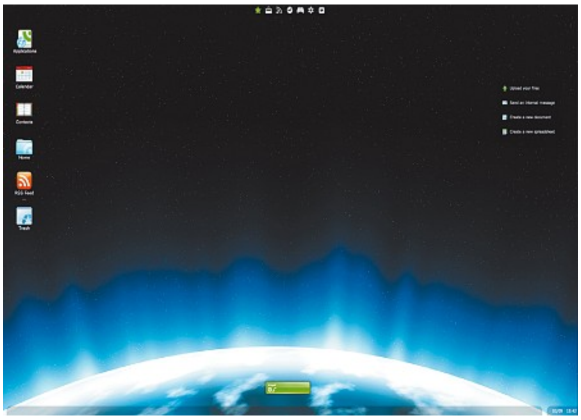
Each issue, New Media Editor Simon Holland selects a fantastic array of software for you to enjoy on your Mac.

>> FULL SOFTWARE

Trax OS Mini Edition

Take advantage of an online desktop

Cloud computing has become a huge buzzword and Google is considered to be the biggest player in this sector, with next year's Chrome OS launch set to bolster its position. However, if you can't wait any longer for a more online desktop then try *Trax OS Mini Edition*. It will drag the contents of your computer into the Cloud by providing access to all your documents, apps, contacts and more, from computers, phones or anywhere internet-connected.



Take your Mac to anywhere in the world with Cloud computing.

>> FULL SOFTWARE

QuickApps 1.0

Access more software easily

The OS X user interface, although widely lauded for its simplistic design, isn't completely flawless. The Dock is the main access point for software, but it is fairly limited in terms of space. For everything else you're given Spotlight, but that also has its pitfalls. Have you ever attempted to click on an item only to find a new result immediately takes its place just microseconds before the downward motion on your mouse's button? We have the answer and have included it on your disc. *QuickApps* is a fully customisable addition to your menu bar for accessing packages not on your doc. ●

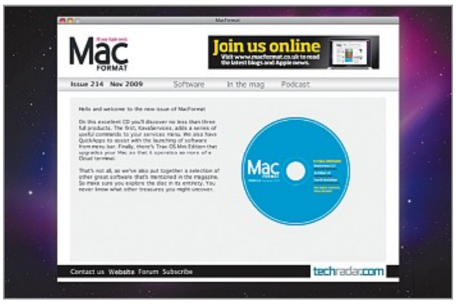
>> FULL SOFTWARE

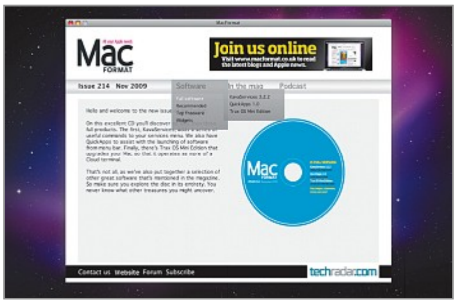
KavaServices 3.2.2

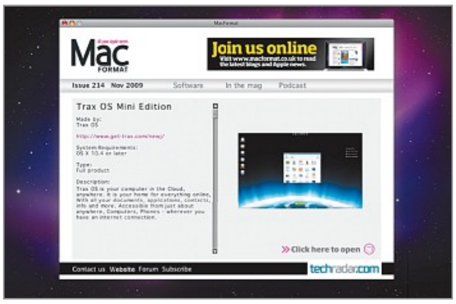
Turbo charge your services menu

Following on from the theme of the last full product, we're looking to make things easier for you in OS X, by giving you the functionality that should be bundled as default by Apple, but is instead lacking. *KavaServices* adds a collection of useful commands to the Services menu in Tiger and Leopard only. This great hack makes it easy to translate, search the web, encode for HTML, calculate, convert units, sort, change case, execute commands, and more quickly. If you're looking for Snow Leopard support check out the discount on the opposite page. ●

HOW TO / Install the programs on your disc







01 Loading the disc

After inserting your *MacFormat* disc into your drive, double-click the disc icon on your Desktop, then double-click the icon named MacFormat.osx. This will load the interface so you can view info about the items on the disc.

02 The software

Once loaded, accept the terms and conditions in order to go to the homepage. From here you can click **Software**, **In The Mag** or **Podcast**. The first two lead to sub-sections, which contain the software tools.

03 Getting the apps

Selecting an item will load details about the software. To delve straight into the app, click **Click here to open**. An installer will load or you will go to a window to extract the archive or execute the set-up file manually.

Full disc contents

The complete list to what you'll find on your disc this issue

FULL SOFTWARE

KavaServices 3.2.2
QuickApps 1.0
Trax OS Mini Edition

RECOMMENDED

KavaServices 4.0
QuickApps 2.0.3

TOP FREEWARE

Beatler 0.1.2b
Houdini 3.0.1
IceClean 3.2
iCompta 3.3.4
iStat Menus 2.0
JollysFastVNC 0.98.44
MenuMeters 1.4b1
myDiary_free 1.0.1
PasswordVault Lite
Shortcuts 2.0

WIDGETS

FacebookSearch 1.2
iTube Widget 1.22
Time Machine Buddy
Wetter 4.0

IN THE MAG

Games
Civilization IV Demo 1.0

Group test
Drive Genius 2.2.1

Q&A
Airfoil 3.3.2
EPSQuickLookPlugin
SuperDuper 2.6.1
VoltaicHD 1.8.8

Drive Genius 2

Use Drive Genius to maintain, manage and optimize your hard drive.

Reviews
KavaMovies 1.4.1
Pagehand 1.0.6
VelOCRaptor
TextWrangler 3.0
uBar 1.0 @uBar 1.0
VirtualHostX 2.0.4

Shareware
SIDPLAY 4.1.3

Podcast
Podcast
29th June 2009

GET YOUR SERIAL CODE

Some products on the disc require registration to unlock all the features. Instructions are on the interface, which is loaded from the disc's root.

HAVING PROBLEMS?

In the unlikely event of your disc being defective, please email our support team at **support@futurenet.co.uk** for further assistance. If you would prefer to talk to a member of our support team in person, call **01225 822743**. If you have comments about the software we include or you have suggestions for software that you would like to see on future discs, please email to Simon Holland, New Media Editor, at **simon.holland@futurenet.com**

READER OFFERS / Save yourself £££s

Upgrade to KavaServices 4
As a reader of *MacFormat* you can enjoy a 20% discount on both the latest edition of *KavaServices* and all the other software available at the *KavaSoft* store. **www.kavasoft.com/store/?coupon=macformat**.

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Tree Software are offering $4 off your next purchase. Go to **thoughtfultree.com/store** and use the code 'macformat'.

Upgrade to Trax OS
Save $5 using the code, 'MACFORMATCOUP'. That means you pay $20 instead of $25. Type the following URL into your browser for more details: **www.get-trax.com/store/**.

On your disc

Find three full programs plus a selection of widgets, tutorials, reviews and freeware

Mac FORMAT
ISSUE 214 / November 2009

MISSING YOUR DISC?
If your disc is missing, email **support@futurenet.co.uk** or phone 01225 822743

Future Technology coverdisc

This disc has been thoroughly scanned and tested at all stages of production, but - as with any new software - we still recommend that you run a virus checker before use. We also recommend that you have an up-to-date backup of your hard disk(s) before using this disc.

Future Publishing cannot accept responsibility for any disruption, damage and/or loss of data to your data or computer system that may occur while using this disc, or the programs and data on it. We advise that you consult your network administrator before installing software on a networked Mac.

Coverdisc problems

If you are having difficulties using the MacFormat disc interface or its content, please visit our reader support website at www.futurenet.co.uk/support. On this regularly updated website, you'll find solutions to numerous commonly reported problems. If, after reading these, you are still experiencing difficulties, then please email our reader support team (support@futurenet.co.uk) or phone 01225 442244 and ask for coverdisc support.

Please note that we can only provide technical support for the installation of software. Unfortunately, we cannot give in-depth help on the applications, or on your hardware or operating system. For software support-related issues, please contact the relevant product's developers. We are unable to provide serial numbers over the phone.

Please also note that Future Publishing can only provide technical support for this disc for a period of six months after this magazine's on-sale date.

Interface

- Interface requires OS X.
- Some programs may require free registration over the internet or phone.
- Some software may not be available in all territories.
- Where relevant, program values quoted are prices when sold with original packaging and manuals.

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